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**BASSEM AHMED**

**MASTER SCHEDULER, DELAY AND PRODUCTIVITY LOSS EXPERT**

- Mr. Ahmed has 25 years of international project experience and is a Class A engineering contractor in the USA. He is a testifying subject matter forensic delay and loss of productivity expert, and has been involved in disputes on some of the largest heavy civil projects in the world.
- He has testified in international arbitration matters in Canada and the USA.

**EDUCATION**

- M. Eng./2004/Project Management/University of Maryland
- B.S./1994/Construction Engineering Technology/Purdue University

**PROFESSIONAL AFFILIATIONS**

- Licensed Engineering Contractor in Virginia and Maryland, USA
- 2016/Construction Quality Management (USACE/NAVFAC)
- 2016/30-Hour Construction Safety and Health (OSHA)

**PROJECT EXPERIENCE**

- Airports civilian – terminal buildings, runways, and airfields
  - Chemical manufacturing facilities
  - Dams and flood control projects
  - Embassies
  - Highways (interstate)
  - Hospitality facilities
  - Institutional buildings
  - Pipelines
  - Ports
  - Power plants using coal, natural gas, hydro
  - Power transmission systems
  - Rail (LRT)
  - Wastewater treatment facilities
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PROJECT EXPERIENCE BY COUNTRY

Mr. Ahmed has worked on projects in the following countries:

1. Afghanistan
2. Argentina
3. Australia
4. Canada
5. China
6. Denmark
7. Dubai
8. Egypt
9. Ethiopia
10. Finland
11. Guam (Territory of the USA)
12. Indonesia
13. Iraq
14. Malaysia
15. Nepal
16. Netherlands
17. Oman
18. Panama
19. Philippines
20. Saudi Arabia
21. Singapore
22. Tanzania
23. Thailand
24. Turkey
25. Uganda
26. United States of America



EXPERT EXPERIENCE – INDUSTRIAL PROJECTS

**Chemical Facility**

**Argentina & Netherlands** – On behalf of the Owner in international arbitration Argentina for two PET projects using the same technology. Project Consultant for the evaluation of contractor’s time-impact analysis and delivery of independent expert report.

**Singapore** – Bulk Pharmaceutical Plant, Kvarner Process Inc., Shering-Plough, (Chemical Process) (1999-2000), Singapore: Project Consultant for the review of Owner’s Claim that Design Deficiencies caused project delays and cost overruns. The project consisted of the construction of an Intermediates Facility, Steroids Facility, Piping Systems, Quality Control Lab, and a Warehouse to accommodate the plant’s process. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

EXPERT EXPERIENCE – POWER PROJECTS

**Coal**

**Indonesia** – Paiton Private Power Plant, Mitsui International LTD, Indonesia: (Steam Generated Power) (1999) Project Consultant for review of Contractor’s Claim that unforeseen site conditions caused delay and cost overruns. The project involved the construction of eight 300 MW Units (Power Block), Boiler Systems, Intake/Discharge Canal, Switchyard, Transmission Lines, Desalination Plant, Tank Farms and Complete System Piping. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

**Transmission**

**Canada** – Eastern Alberta Transmission Line, ATCO Electric Ltd., Siemens (Transmission Substations) Alberta, Canada (2016). Principle Consultant for preparation of independent measured mile productivity analysis related to additional winter costs for excavations and concrete works incurred by Siemens. The analysis was presented during settlement negotiations



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between Siemens and ATCO. The project consists of two \$400 million substations Heathfield and Newell including transformer pads, control buildings, above and below ground electrical systems and piping and extensive lightning grounding system.

**Qatar** – 132 KV & 66 KV Underground Transmission Project, Kahrumia (Qatar Electricity & Water Corp), LaLive, Doha, Qatar: (Power Transmission) (2007-2008) Senior Project Consultant assisting the preparation of expert delay analysis report and exhibits for ICC arbitration case related to delays encountered by subcontractor on project. The project consisted of one (1) 132 KV route and four (4) 66 KV route for the upgrade in preparation of the 2006 Asian Games held in Doha, Qatar. Reviewed contemporaneous contract documentation including tender documents, contract agreements, project drawings, CPM schedules, inspection reports and project correspondence to assist in the preparation of expert report and exhibits.

## Nuclear

**Finland** – Olkiluoto Nuclear Power Plant OL3, TVO, AREVA, Finland (Nuclear Power) (2010), Senior Project consultant for assistance with arbitration proceedings and expert delay analysis. Project consisted of primary and auxiliary nuclear process components with ancillary systems to transmit electricity from the nuclear core. It includes two Boiling Water Reactors with 860 MW units, unit 3 is the first European Pressurized water reactor. Reviewed project correspondence including meeting minutes, CPM schedules and correspondence to assist with delay analysis and proceedings.

**USA** – Millstone Unit 3 Nuclear Plant, Northern Utility Power Corporation, Connecticut: (Nuclear Power) (1998-1999) Project Consultant for review of Owners Claim for delay caused by prolonged shutdown and profit loss thereof. The project consisted of a maintenance shutdown to repair auxiliary piping systems. The NRC did routine evaluations and discovered other maintenance failures that would need immediate repair before start-up of the system. Programmatic issues arose that needed employee personal training prior to start-up. Reviewed project schedule, daily reports, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

**USA** – Savanna River Nuclear Facilities Project, Bechtel Corporation, Department of Energy, Savanna River, GA: (Nuclear Power) (1988) Associate Engineer responsible for the field walk down of drainage and outfall system. The project consisted of a 300 sq. mile Nuclear Facility including nuclear power blocks, tritium producing facilities, wastewater treatment facilities, laboratories, and military housing facilities. Reviewed the walk down assessment to complete the characterizations of wastewater discharge from the facilities.



## Gas

**Qatar** – Ras Abu Fontas (RAF B2) Power and Desalination Plant Qatar Electricity and Water Company, Fisia Construction Company, Doha, Qatar (Power/Water Infrastructure (2010), Senior Project Consultant assisting in the preparation of an independent delay analysis for arbitration proceedings. The project consisted of the installation of 597 MW power station with three GE gas turbines and 29.4 million gallons/day desalination plant with two heat recovery boilers to supply steam to two multistage flash distillers.

**Saudi Arabia** – Riyadh Power Plant # 10, Al Mabani, Riyadh, KSA (Gas Turbine Power) (2008-2009), Senior Project Consultant for the preparation of resource and cost loaded Baseline CPM schedule. Project consisted of 36- GE Gas Turbines with ancillary systems such as switch yard, water treatment, chemical treatment, oil tank farms, and transmission lines. Reviewed contract plans and specifications, BOQ, and resource productivity reports to prepare CPM schedule.

**USA** – North Hampton Cogeneration Project, Bechtel Corporation, Northhampton, PA: (Steam/Gas Generated Power) (1987) Associate Engineer responsible for the preparation of data input files for air quality dispersion models and intermediate terrain modeling on the project. The project consisted of a power block (generating units and boiler), intake/discharge facility, switchyard, tank farm and transmission lines. Reviewed data input files and model output for the evaluation of fugitive emissions from the power plant stacks.

**Egypt** – Shoubrah EL Kheima Power Plant, Bechtel Corporation, Egyptian Electricity Authority, Cairo, Egypt: (Steam Generated Power) (1985) Associate Engineer responsible for the field verification of as-built piping, pipe supports, and electrical tray installations. Also, responsible for the field calculations for structural steel members, pipe supports, and equipment foundations. Reviewed P&ID's, Structural Drawings, and Piling Foundation Reports to verify installation and structural calculations.

## Hydroelectric

**Ethiopia** – GIBE III Dam, Salini Construction Company, Ethiopian Electric Power Corporation, Addis Ababa, Ethiopia, (Hydroelectric Power) (2013), Senior Project Consultant for the preparation of an independent delay analysis related to unforeseen conditions on the Project. The project is located on the Omo River approximately 300 km southwest of the capital



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Addis Ababa. It is consisting of a 243 meter high roller-compacted concrete dam with associated spillway, intake tunnels, penstock and an open air hydroelectric power plant with 10 electric generating turbines and associated switchyard. The project involves three diversion tunnels and two twin pumping tunnels, two intake structures, two horizontal tunnels, four vertical walls and two distributors. Once completed it will be the largest hydroelectric plant in Africa with 1870 Megawatt power output.

**Uganda** – Bujagali Hydropower Project Salini Construction Company, Bujagali Energy Limited, Jinja, Uganda (Hydroelectric Power) (2010), Senior Project Consultant for the preparation of an independent delay analysis related to unforeseen conditions found during construction activities. The project is a 250-megawatt power generating facility built on the Victoria Nile consisting of a 30m high earth filled dam and associated spillway, power station housing 5 electric-generating turbines and 388 ha water reservoir.

**Nepal** – Bhote Khoshi Hydroelectric Power Plant, Panda Energy International Inc., Nepal Electricity Authority, , Bhote Khoshi, Nepal: (Hydroelectric Power) (1999-2001) Project Consultant for the review of Contractor' Claim for two Force Majeure Events, and Transmission Line Land Acquisition issues which caused delay and cost overruns. In addition, assisted in the preparation of the contractor's completion schedule. Assisted in settlement negotiation and mediation proceedings with Owner and Contractor. The project involved the construction of a Diversion Dam, Desanding Basin, Headrace Tunnel, Penstock, 36 MW (2 unit) Powerhouse, Tailrace, Switchyard, and Transmission Lines. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report and contractor completion schedule. Prepared presentations for Owner/Contractor settlement negotiations and mediation.

**China** – Xiaolangai Hydroelectric Power Plant, Third Party Subcontractor, China Electricity Authority, Xiaolangai, China: (Hydroelectric Power) (1999) Project Consultant for the dispute resolution during the planning and construction phase. The project involved the construction of underground generating units, silt discharge channels and 1,317 m-long – 154 m-high dam. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to negotiate successful resolution of contractor claims related to change conditions.



### Flood Control Dams

**Philippines** – Pampanga Irrigation Dam Project, Philippines Government Authority, Pampanga, Philippines: (Irrigation Dam) (1999) Senior Scheduler for preparation of Resource Loaded Construction CPM Schedule. The project involved the construction of an irrigation dam, which consisted of a Dam, Spillway, Canal, and Temporary Diversion Dam. Review contract specification and plans, resource data, bill of quantities, and construction line diagrams to prepare the Construction CPM Schedule.

### Oil & Gas Facilities

**Oman** – On behalf Oman LNG Project, Taisei Corporation, Shell, Muscat, Oman :( Chemical Process) (2000) Claims Analyst for review of Contractor’s claim. The project involved construction of a liquefied natural gas marine off loading facility and associated piping systems. Reviewed contract specifications and plans, monthly reports, project schedules, correspondence and cost data to prepare delay/acceleration and cost analysis report.

### Roads

**Dubai** – R800/6 Ras Al Khor Crossing RTA, Salini Construction Company, Dubai, U.A.E. (Interchange Infrastructure) (2010/2011) Senior Project Consultant for independent delay analysis related to contract modifications and unforeseen conditions during the course of the project. The project consisted of traverse bridges across the Sheikh Zayed Road providing a freeway in both directions from Al Safa Road to Financial Centra Road.

**Dubai** – R881-3A Comprhensive Improvements of the Parallel Roads RTA, Salini Construction Company, Dubai, U.A.E. (Interchange Infrastructure) (2010/2011) Senior Project Consultant for independent delay analysis related to contract modifications and unforeseen conditions during the course of the project. The project involves the construction of 7 post-tensioned bridges cast on site, a 645 m underpass, a pumping station and various other construction activities such as road surfacing, signage and street lighting and the diversion and protection of existing services.

**Tanzania** – Upgrading of Mbeya-Chuya-Makongolosi Road: Section 1: Mbeya-Lwanjilo (36km) Tanzania National Roads Agency, Kundan Singh Construction Ltd, Tanzania (Transportation Infrastructure) (2010). Senior Project Consultant for the



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preparation of an independent delay analysis to assist with arbitration proceedings. The project consisted of clearing and grubbing, excavation including cut to spoil, sub grade filling and rock excavation, stabilization of sub base materials, crushed stone base course, double surface dressing and one box culvert and other drainage structures.

**USA** – Ammendale Virginia Manner Road, Prince George’s County Government, Prince George’s County, Maryland: (Transportation Infrastructure) (2006) Project Consultant for the evaluation of contractor’s claim and preparation of Contract Administrator’s Final Decision regarding Contractor’s delay claim related to utility relocation delays. The Project consisted of the widening of Ammendale Virginia Manner Road with all associated utility and storm water upgrades. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI’s and other project documentation such as the Project Schedule Updates, Certified Payroll and Construction Daily Reports to prepare Contract Administrator’s Final Decision. In addition.

**USA** – Route 58 Clarksville Bypass Commonwealth of Virginia Office of Attorney General, Clarksville, (Transportation Infrastructure) (2006) VA, Senior Claims Analyst for the review of the contractor’s claim regarding delay, loss of productivity, material escalation and evaluating the contractor’s time-impact analysis. The project consisted of 11 bridges which include the following work elements MOT, demolition, drilled shafts or pile systems, piers, steel girders, concrete superstructure, and 4 miles of roadwork including storm water drainage. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to allocate responsibility of the delay. Assisted with the presentation to the Commissioner and subsequent litigation proceedings between both parties and equitable settlement of the claim.

**USA** – Route 287 Bridge over Catoctin Creek, Commonwealth of Virginia Office of Attorney General, Leesburg, VA: (Transportation Infrastructure) (2005) Senior Claims Analyst for the review of the contractor’s claim regarding delay and evaluating the contractor’s time-impact analysis. The project consisted of widening the Route 287 Bridge over Catoctin Creek. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to allocate responsibility of the delay. Assisted with the mediation proceedings between both parties and equitable settlement of the claim.

**USA** – Lansdowne Interchange., Lansdowne Town Center LLC, Lansdowne, VA: (Transportation Infrastructure) (2003-2004) Senior Scheduler for the preparation of initial constructability schedule. The project consisted of roadway and interchange





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expansion including utility relocations, bridge work, storm drainage and concrete and asphalt paving activities. Reviewed contract specifications and plans, phasing diagrams to prepare constructability schedule.

**USA** – Mercury Blvd Interchange., VDOT, Hampton, VA: (Transportation Infrastructure) (2003-2004) Senior Claims Analyst for the review of the contractor’s claim regarding delay and evaluating the contractor’s time-impact analysis. The project consisted of roadway and interchange expansion including retaining walls, bridge work, storm drainage and concrete and asphalt paving activities. Reviewed contract specifications and plans, monthly reports, project schedules, issue correspondence and cost data to allocate responsibility of the delay.

**USA** – Springfield Interchange, VDOT, Springfield, VA: (Transportation Infrastructure) (2003) Project Consultant for the preparation and review of As-built Schedule data for anticipation of Contractor claim of schedule delays and cost overruns for changes to Retaining Wall # 69 on Phase IV of the project. The Springfield Interchange project consists of multiple bridge, retaining wall, and roadway demolition and construction with associate utility relocations. Reviewed inspection daily reports, project schedule updates, plans and specifications to prepare As-Built Schedule data and Manpower graphics for Bridge 635 and Retaining Walls 68 & 69.

**USA** – Route 460/Rte. 29 Bypass Interchange, VDOT, Lynchburg, VA: (Transportation Infrastructure) (2003) Senior Scheduler for review and analysis of Contractor’s Schedule Updates and time-impact analysis regarding delay claim. The project consisted of the construction of a portion of the new cloverleaf interchange relocating Rte. 460 and Rte. 29 bypass in the northeast quadrant of the Lynchburg City limits. The project is approximately two miles in length and included the construction of eight bridges with roadway and ramp construction, which involved large quantities of earthwork with fills approaching 100-feet in depth. Reviewed Contractor Project Schedule Updates, Specifications, and Contract Drawings to prepare analysis report.

**USA** – MD Route 2 – Solomon’s Island Road, MSHA, MD Route 2, MD: (Transportation Infrastructure) (2001) Project Consultant for the review of the Initial CPM Schedule submitted by the contractor on this project. The project consists of the widening of MD Route 2 between South Pike Road and Virginia Avenue and the remediation and upgrade of various other roads. The work consisted of excavation, graded aggregate base, curb & gutter, and asphalt paving including storm drainage and various utility installations (waterline, sanitary line, and power lines). Reviewed the contract specifications and plans to prepare the Initial CPM review report.



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**USA** – MD 695 – from I-97 to MD 10 Design/Build, MDSHA, Anne Arundel County, MD: (Transportation Infrastructure) (2001) Project Consultant for the review of the Initial CPM Schedule and subsequent updates submitted by the contractor on this project. The project consists of the design and construction of median widening to accommodate a third lane along eastbound and westbound MD 695. The project also included the design and construction of outside widening to increase the acceleration lane from southbound MD 2 to westbound MD 695 and the construction of a noise wall along eastbound MD 695 from I-97 to the off ramp of southbound MD 2. Reviewed the contract specifications and plans to prepare the Initial CPM review report.

**USA** – MD Route 235 – from MD Rt. 237 to Pegg Road, MDSHA, St. Mary's County, MD: (Transportation Infrastructure) (2001) Project Consultant for review and analysis of Contractor's Schedule Updates. The project consisted of widening, reconstruction and resurfacing of MD 235 to a six-lane divided roadway. The work included sidewalks, improvements to intersections, medians, channelization, islands, grading, drainage, paving, retaining wall, storm water management, erosion and sediment control, landscaping, signing, utility relocations, and pavement markings. Reviewed Contractor Project Schedule Updates to prepare analysis report.

**USA** – MD 4 at MD 260 Interchange, Maryland State Highway Administration, (Transportation Infrastructure) (2001) Calvert County, Maryland: Project Consultant for review and analysis of Contractor's Schedule Updates. The project consisted of the construction of a fly-over ramp from MD 4 Southbound to MD 260 Eastbound, re-alignment and reconstruction of the existing ramp from MD 260 Westbound to MD 4 Northbound, construction of a new ramp from MD 4 Northbound to MD 260 Eastbound, and construction of one bridge over Lyons Creek. The work included grading, drainage, paving, storm water management, erosion and sediment control, landscaping, signing, utility relocations, and pavement markings. Reviewed Contractor Project Schedule Updates to prepare analysis report.

**USA** – MD 32 Airfield Road Interchange, Maryland State Highway Administration, Anne Arundel County, Maryland: (Transportation Infrastructure) (2001) Senior Scheduler for review and analysis of Contractor's Schedule Updates. The project consisted of the design and construction of an interchange between MD32 and MD 198 / Airfield Road. The work included the design and construction of relocated MD 198 / Airfield Road, two roundabouts at the ramp intersections, and the elimination of two existing at-grade intersections of MD 32 with MD 1.



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**Australia** – City Link Project, Melbourne Transportation Authority, Melbourne, Australia: (Transportation Infrastructure) (1998) Project Consultant for review of Contractor’s Claim that Owner directed changes caused delays and cost overruns. The project consisted of construction of 12 lane road system including bridges, ramp systems, toll booths, storm drainage, and landscaping to connect Melbourne to adjacent cities. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

**USA** – George Washington Parkway Deer Creek & Turkey Run Bridge Improvements, Federal Highway Administration, Fairfax County, VA: (Transportation Infrastructure) (1997) Contractor Quality Control Manager for developing quality control plan on project. The project consisted of bridge concrete deck replacement and remediation of structural steel girders. Reviewed contract specifications and plans to prepare quality control plan.

**USA** – I-85 Interstate Highway Improvements, NC DOT, North Carolina: (Transportation Infrastructure) (1997) Project Consultant for review of Contractor’s poor quality control claim for additional costs. The project consisted of interstate lane improvements and additions utilizing concrete panel construction. Reviewed contract specifications, daily reports, correspondence, and quality control test results to prepare expert report.

**USA** – Baltimore/Washington Parkway & MD 197 Improvements, Federal Highway Administration, Maryland: (Transportation Infrastructure) (1997) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project consisted of interchange improvements (asphalt paving, drainage, curb & gutter, retaining walls, landscaping). Reviewed contract specifications and plans to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

## Metro Rail

**USA** – Grand Central Terminal Concourse and Facilities Fit Out for East Side Access Project, Metropolitan Transit Authority (MTA), Dragados – New York, New York (Rail Infrastructure) (2017 to Present), Senior Scheduler for preparation of recovery schedule to show where project stands with current impacts which included an impacted schedule, a reasonable recovery schedule and an acceleration schedule. Presented findings to Dragados and MTA. The project consisted of complete renovation of concourse level of terminal (366,500 sf) with multiple new escalators and elevators (11,000 sf), metal panel ceilings and terrazzo flooring (100,000 sf each) and acoustical ceiling tiles and marble wall tiles (50,000 sf each).



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**Canada** – Ottawa Light Rail Transit Project – Confederation Line and Highway 417 Widening, City of Ottawa, ORLT Constructors (Rail Infrastructure) Ottawa, Canada (2017). Principle Consultant for preparation of independent measured mile productivity analysis related to unforeseen soil conditions during tunneling operations incurred by ORLT. The analysis was presented during settlement negotiations between City of Ottawa and ORLT. The project includes: a 12.5-kilometre line along the existing Bus Route System (BRT) corridor from Blair Road in the east to Tunney's Pasture in the west, a tunnel through the downtown core and 13 stations, including three underground stations.

**Turkey** – Marmaray CR3 Project Ministry of Transportation, OHL – Istanbul, Turkey, (Rail Infrastructure) (2013), Senior Consultant for the preparation of an independent delay analysis to assist the contractor in preparation of an extension of time request. The project consists of the developing connection of the rail lines between the European and the Asian side in Istanbul through an underwater tunnel in the Bosphorus Strait. The works include the full design, complete removal of two existing tracks and their replacement with three new tracks over 63 km of the 77 km project, the renovation and construction of 36 stations, the construction of 130 structures, two operation and control centers, garages, and workshops, renovation of all electromechanical systems (power supply, catenary, signaling, telecommunication and ticketing systems) along the 77 km of the project.

**Denmark** – Copenhagen Cityringen Metro, Metroselskabet I/S, CMT – Copenhagen, Denmark (Metro Rail Transportation) (2011/2012), Senior Scheduler for preparation of resource loaded working schedule based off approved contract schedule. The project will form a new circular line in the city center and will consist of two 17.4 km tunnels and 17 new stations (two of which are transfer stations) all at 30 meters below ground level. From a technical point the project is extremely complex, since the city is at sea level. The fully automated driverless metro system will operate 24 hours a day, with a minimum frequency of 100 seconds.

**Dubai** – Dubai Metro Project, RTA - Dubai, U.A.E, (Metro Rail Transportation) (2009/2010) Senior Project Consultant for the preparation of metro station as-built schedules to assist with overall delay analysis. The project consisted of red and green above and below ground rail systems traversing thru downtown Dubai. Red line consisted of 26 stations and is considered the largest above ground metro line. Reviewed daily reports, weekly reports and project correspondence to prepare the as-built schedules.



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**USA** – Metro Elevator Rehabilitation, City of Baltimore, Maryland Transit Administration, Baltimore, Maryland: (Metro Rail Transportation) (2003) Senior Scheduler for the review and analysis of periodic schedule updates and Time-Impact Analysis submitted by the Contractor for monitoring and control. The project consisted of the rehabilitation of 33 elevators at 21 stations located throughout Baltimore City and County. The work consisted of restoring elevator cabs, hoist ways, mechanical and electrical equipment, and equipment upgrades for ASME compliance. Reviewed contract drawings and specifications, correspondence, and other project documentation such as the construction daily reports and periodic schedule updates to prepare independent evaluation.

**Singapore** – C-710 MRT (Mass Rail Transportation) Project, Shimuzu Construction Company, Singapore Land Transit Authority, Singapore: (Metro Rail Transportation) (2000) Senior Scheduler for review of Contractor's Claim that unforeseen site conditions and Owner directed changes caused delay and cost overruns. The project involved the construction of a new Outram Park Terminal Station and two new underground transit lines to adjacent stations utilizing Tunnel Boring Machines. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay/acceleration and cost analysis expert report.

## Ports

**Panama** – Panama Canal Expansion GUPC, Panama City, Panama (Port Infrastructure) (2012/2013), Senior Consultant for preparation of independent delay analysis caused by unforeseen conditions for assistance in joint venture dispute with owner. The project consists of the construction of two new locks, one each on the Atlantic and Pacific sides, each will have three chambers with water-saving basins, excavation of new channels to the new locks, widening and deepening of existing channels and raising of the maximum operating levels. The Project is intended to double the capacity of the Panama Canal by 2015 by creating a new lane of traffic and allowing more larger ships to transit.

**USA** – Dolphin Repairs Jamestown Ferry – Glass House Point Wharf, Commonwealth of Virginia Office of Attorney General, James City County, VA: (Port Infrastructure) (2006) Senior Claims Analyst for the review of the contractor's claim regarding delay, concrete rejection, remedial repairs and evaluating the contractor's impact costs. The project consisted of removal and repair of dolphins and lifting platforms including timber pile head dolphins and sheet pile head and end dolphins while keeping Ferry System operational. Also assisted in settlement negotiation. Reviewed contract specifications and plans, monthly reports,



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project schedules, contemporaneous correspondence and cost data to allocate responsibility of the delay. Assisted with the mediation proceedings between both parties and equitable settlement of the claim.

**USA** – APM Terminals, Mersk International, Portsmouth, VA: (Port Infrastructure) (2004) Program Scheduler for the preparation of program schedule procedures and submissions. The project consisted of new construction of a complete terminal for offloading. The work performed included dredging, wharf platform construction, wetlands mitigation, yard infrastructure, roadway infrastructure, rail work, administrative buildings and associated utility and storm water infrastructure work. Reviewed contract drawings and specifications to prepare program schedule and reporting procedures.

**USA** – NIT South Renovation, Norfolk International Terminals, Virginia Port Authority, Norfolk, VA: (Port Infrastructure) (2003-2004) Project Scheduler/Claims Consultant for the independent evaluation of a Time-Impact Analysis submitted by the Contractor due to the alleged delays caused by unforeseen conditions. The project consisted of a complete reconstruction of 4,230 linear feet of existing facility. The work performed included demolition of approximately 185,000 square feet of existing concrete wharf and the supporting concrete piles, 190,000 square feet of asphalt concrete paving, removal of underground utilities and the new construction of pre-cast concrete piles, sheet piling, concrete wharf structure, asphalt concrete paving, and the installation/relocation of utilities. Reviewed contract drawings and specifications, correspondence, and other project documentation such as the Project Schedule Updates and Construction Daily Reports to prepare independent evaluation expert report.

## **Waste Water Treatment**

**USA** – Mayo FGD Wastewater Zero Liquid Discharge (“ZLD”) Project, Duke Energy Progress, Inc., PCL Industrial Construction Co. (“PCL”), North Carolina (Wastewater Treatment) (2015). Principle Consultant for the review of PCL’s Request for Equitable Adjustment in relation to PCL’s ongoing dispute with Duke in preparation for mediation proceedings. Specifically, reviewed PCL’s measured mile analysis for productivity losses, prepared pro’s and con’s of analysis and prepared independent Expert Report related to productivity losses using earned value analysis methodology for presentation at mediation proceedings. The project consisted of erection of Primary and Secondary Evaporators, including associated process equipment such as turbo fans, scrubbers and heat exchangers. Erection of interconnecting process piping and electrical instrumentation scope. Installation of equipment, steel, piping and E&I for BOP and Fly Ash Silos.



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**USA** – Sewage Treatment Plant Upgrade, Department of the Navy, Marine Corps Base – Quantico, Virginia: (Sanitary & Wastewater Treatment) (2002-2003) Claims Analyst for the review of the contractor’s claim of delays and cost overruns due to change orders. The Project consisted of the demolition, modification, and general construction upgrade of sewage treatment plant facilities, including piping, pumps, screening systems, grit removal systems, de-nitrification and nitrification systems, clarification systems, post-aeration systems, ultraviolet disinfection systems, anaerobic sludge digester systems, centrifugal sludge dewatering systems, new administration building, and incidental related work. Reviewed contract specifications and plans, daily reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report. Assisted with the successful settlement negotiations related to the contractor’s claims.

**USA** – Sludge Thickening Facilities Expansion, Back River Wastewater Treatment Plant, City of Baltimore Department of Public Works, Baltimore, MD: (Sanitary & Wastewater Treatment) (2002-2003) Project Consultant for preparation of independent evaluation of the Request for Equitable Adjustment submitted by the Contractor for time extensions and impact costs due to the delay caused by alleged design deficiencies and assistance in the settlement negotiations. The project consisted of the construction of a new Gravity Belt Thickener Building, Waste Activated Sludge Surge Tank, Gravity Belt Thickener Order Control Facility, Gravity Sludge Thickener Odor Control Facility, Digester/Thickener Gallery Modifications, Gravity Sludge Thickener Renovations, and Waste Activated Sludge Control Valve Vault. The work performed included associated piping, mechanical and electrical work, site work, and other replacement work. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI’s and other project documentation such as the Project Schedule Updates to prepare independent evaluation expert report.

**USA** – Seneca Wastewater Treatment Plant Expansion, WSSC, Montgomery County, Maryland: (Sanitary & Wastewater Treatment) (2001-2005) Claims Analyst for the review of the contractor’s claim of delays and cost overruns due to structural steel revisions. The Project consisted of the renovation and new construction of an existing facility. Work areas included the Solids Facility, Blower Building, Bio-solids Facility, Tertiary Facility, and associated yard piping and equipment. Reviewed contract specifications and plans, daily reports, project schedules, contemporaneous correspondence and cost data to prepare delay analysis. Assisted with the settlement negotiations related to the contractor’s claims.

**USA** – South Bay Ocean Outfall, City of San Diego Waste Water Treatment Authority, San Diego, California: (Sanitary & Wastewater Treatment) (1999) Project Consultant for review of Contractor’s Claim that unforeseen site conditions and Precast Segment Design changes caused delays and cost overruns to the project. The project consisted of a Tunnel Bored Wastewater



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Outfall System consisting of Precast Tunnel Segment Liners from the City of San Diego into the Pacific Ocean. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

### Pipeline

**USA** – North Central Hillsborough Intertie – Contract 1, John D. Stephens, Inc., Tampa Bay Water Authority, Tampa, Florida: (Water Treatment) (2001) Senior Scheduler for the preparation of progress updates for construction CPM schedule. The project consists of the construction of approximately 30,000 linear feet of 84-inch diameter water transmission main including all 84-inch diameter water transmission pipe, fittings, specials, installation of owner furnished 72-inch diameter butterfly valves, trechless crossings, connections to existing water mains, air release systems, blow-off assemblies, corrosion control/monitoring systems, drainage modifications, surface restoration, testing, disinfection and placing new water transmission main in service. Reviewed contract specifications, drawings, and Contractor progress to update the construction CPM schedule and evaluate delays to prepare progress update submissions with written narrative.

**USA** – North Central Hillsborough Intertie – Contract 2, Rockdale Pipeline Inc., Tampa Bay Water Authority, Tampa, Florida: (Water Treatment) (2001) Senior Scheduler for the preparation of progress updates for construction CPM schedule. The project consists of the construction of approximately 34,850 linear feet of 84-inch diameter water transmission main including all 84-inch diameter water transmission pipe, fittings, specials, installation of owner furnished 72-inch diameter butterfly valves, trechless crossings, connections to existing water mains, air release systems, blow-off assemblies, corrosion control/monitoring systems, drainage modifications, surface restoration, testing, disinfection and placing new water transmission main in service. Reviewed contract specifications, drawings, and Contractor progress to update the construction CPM schedule and evaluate delays to prepare progress update submissions with written narrative.





## Airports

**USA** – Dulles International Airport, Runway 1R-19L Pavement Repairs, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (2020) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved Taxiway and Runway concrete panel construction including utilities (Lighting and Drainage). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Dulles International Airport, Taxiway B Middle Reconstruction, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (2019) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved Taxiway concrete panel construction including utilities (Lighting and Drainage). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Dulles International Airport, Taxiway B West Reconstruction, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (2018) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved Taxiway concrete panel construction including utilities (Lighting and Drainage). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Dulles International Airport, Taxiway J Reconstruction, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (2017-2018) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved Taxiway concrete panel construction including utilities (Lighting and Drainage). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.



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**USA** – Naval Station Norfolk, SP Area and SP37 Replace Airfield Pavement , Naval Facilities Engineering Command – Mid Atlantic, Norfolk, VA: (Airport Infrastructure) (2016-2017) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved Helicopter Apron concrete panel construction including utilities (Lighting, Water, Fuel and Drainage). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Dulles International Airport, Taxilane C – Taxiway Z Reconstruction, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (2016-2017) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved Taxilane and Taxiway concrete panel construction including utilities (Lighting and Drainage). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Baltimore/Washington International Airport – Taxiway P and Runway 15R Deicing Pad Pavement and Rehabilitation Maryland Department of Transportation – Maryland Aviation Administration (Airport Infrastructure) (2013), Contractor Quality Control Manager for implementing quality control plan on the project. The project consists of demolition and removal of existing pavement, installation of new glycol collection and drainage infrastructure, trench drains, lighting, diversion vaults, new concrete pavement, and pavement marking. In addition prepared As-Built Delay Analysis for purposes of presenting entitlement to an extension of time.

**Qatar** – New Doha International Airport NDIA Sky Oryz Joint Venture (SOJV) Taisei Corporation, Doha, Qatar (Airport Infrastructure) (2011), Senior Project Consultant assisting in the preparation of an extension of time request for delays outside the contractor's control such as numerous contract modifications. The project is 1/3 the size of the city of Doha and included land reclamation of over 40%, earthworks for drainage and airfield and road paving, road tunnel excavation and passenger terminal, aircraft runway and taxiway and aircraft control tower construction.

**Egypt** – Cairo International Airport – Terminal Building 3, Cairo Airport Company, Dar Al-Handasah, (Airport Terminal) (2009), Senior Project Consultant for the review and analysis of the IT Systems contractor's prolongation cost claim. Project consisted of a main terminal building with two concourses. The IT system work included the design, procurement, installation



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and testing and commissioning of 14 Information Technology Systems. Review contemporaneous project documentation such as contract, plans and specifications, correspondence, monthly, weekly and daily reports, cost ledgers and project schedule updates to prepare risk matrix evaluation and recommendations for settlements. Additionally reviewed main contractor's delay and prolongation claim by preparing an As-Built delay and concurrency of delay analysis.

**USA** – North Terminal Development, Miami International Airport, Miami-Dade Aviation Department, Miami, Florida: (Airport Infrastructure) (2004-2006) Senior Scheduler for the review and analysis of periodic schedule updates and Time-Impact Analyses submitted by the Contractor for time extensions. The project consisted of the restoration and new construction of the North Terminal including Concourses A-D and a roof top Automotive People Mover (APM). The work consisted of core and shell, concourse fit-out and special features, such as, baggage conveying systems, APM rail system, and communication systems. Reviewed contract drawings and specifications, correspondence, and other project documentation such as the construction daily reports and periodic schedule updates to prepare independent evaluations. In addition reviewed all contractor claims on project and assisted with the settlement negotiations and any court mandated mediations of those claims.

**USA** – South Terminal, Miami International Airport, Miami-Dade Aviation Department, Miami, Florida: (Airport Infrastructure) (2004-2006) Senior Project Consultant for the review and analysis of periodic schedule updates and Time-Impact Analyses submitted by the Contractor for time extensions. The project consisted of the restoration and new construction of the South Terminal including Concourses H-J including a new International Arrival Terminal. The work consisted of core and shell, aprons, concourse fit-out and special features, such as, baggage conveying systems and communication systems. Reviewed contract drawings and specifications, correspondence, and other project documentation such as the construction daily reports and periodic schedule updates to prepare independent evaluations.

**USA** – Tier 2 – Automotive People Mover (APM) Station, Dulles International Airport, Metropolitan Washington Airport Authority, Dulles, Virginia: (Airport Infrastructure) (2002-2004) Senior Scheduler for the preparation of the Construction Packages Summary Schedule and Preliminary Design & Construction Schedule. The project consisted of APM mass excavation, APM station structure and fit-out including temporary power plant, APM rail system, Tier 2 connector tunnel construction, APM outer and inner tunnel construction and by-pass taxiway construction. Reviewed preliminary design and specifications, construction interfaces and contractor historical records to prepare schedules.



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**USA** – Consolidated Rental Car Facility, FT. Lauderdale International Airport, Steve Ballard Construction Company, Fort Lauderdale, Florida: (Airport Infrastructure) (2002) Senior Scheduler for the preparation of Tender Schedules for bid proposal. The project involved construction of 7-story concrete parking garage including a helix structure. The work included foundation pile cap installations, forming, rebar installation and concrete pouring of the structure, as well as, mechanical and electrical system installations. Reviewed contract specifications and plans, construction line diagrams, and resource allocation reports to prepare complete Tender Schedules for bid submission.

**Thailand** – Second Bangkok International Airport, Taisei Corporation, New Bangkok Airport Authority, Bangkok, Thailand: (Airport Infrastructure) (2000) Senior Scheduler for preparation of Tender Schedules for bid proposal. The project involved construction of a new Main Terminal Building (MTB) and Concourse Building including Baggage Handling System, Special Systems, Aviation Control Tower, Concourse Apron Construction, and Airport Power Plant. Reviewed contract specifications and plans, construction line diagrams, and resource allocation reports to prepare complete Tender Schedules for bid submission.

**Malaysia** – K L International Airport, Taisei Corporation, Kuala Lumpur Airport Authority, Kuala Lumpur, Malaysia: (Airport Infrastructure) (1998) Senior Scheduler for review of Contractor's Claim bad weather conditions and Owner directed changes caused cost overruns and delays. The project involved construction of a new Main Terminal Building (MTB) and Concourse Building including Baggage Handling System, Special Systems, Aviation Control Tower, Concourse Apron Construction, Airport Power Plant, and Transit Train System (MTB to Concourse). Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

**Guam** – Guam International Airport, Guam Airport Authority, Guam Airport Authority, Guam: (Airport Infrastructure) (1998) Senior Scheduler for review of Contractor's Claim that Force Majeure Events as well as Owner Directed Changes caused delays and cost overruns to the project. The project consisted of Main Terminal Renovations and Additions. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.

**USA** – Andrews Air Force Base Apron Replacement Project, U.S. Air Force, Andrews Air Force Base, MD: (Military Airport Infrastructure) (1997-1998) Project Consultant for the procurement and the preparation of the Construction CPM Schedule. The project consisted of the demolition of existing apron, disposal of hazardous materials, replacement of concrete panels and



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the associated lighting and drainage replacement. Reviewed contract specifications, bill of quantities, and plans before contacting suppliers for procurement of materials and preparing the preliminary construction CPM Schedule.

**USA** – Richmond International Airport, Runway/Taxiway L Extension, Richmond Area Airport Authority, Richmond, VA: (Airport Infrastructure) (1997) Claim Analyst for review of Contractor’s poor quality control claim for additional costs. The project consisted of concrete panel extension of runway and taxiway with associated lighting and drainage. Reviewed contract specifications, daily reports, correspondence, and quality control test results to prepare expert report.

**USA** – Reagan/Washington National Airport, Refueling Truck Parking Apron Replacement, Metropolitan Washington Airport Authority, Washington D.C.: (Airport Infrastructure) (1996) Contractor Quality Control Manager for developing quality control plan on project. The project consisted of concrete panel replacement and associated drainage and lighting with the removal of hazardous materials. Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan.

**USA** – Reagan/Washington National Airport, Airport Electrical Circuit Replacement, Metropolitan Washington Airport Authority, Washington D.C.: (Airport Infrastructure) (1996) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project consisted of electrical conduit, cable, and beacon circuit replacement with new conduit and cable circuit for the New Terminal Building. Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Dulles International Airport, Concourse C Apron, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (1995-1996) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved apron concrete panel construction including utilities (Lighting, Sanitary, Fueling, Drainage, Oil-Water Separator). Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Dulles International Airport, Airport Lighting & Circuit Replacement, Metropolitan Washington Airport Authority, Dulles, VA: (Airport Infrastructure) (1995) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project involved replacement of Runway 1-19 centerline and edge lights and the replacement



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of associated circuits. Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Reagan/Washington National Airport, South Area Roads Improvements, (Airport Infrastructure) (1994-1995) Metropolitan Washington Airport Authority, Washington D.C.: Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project consisted of the replacement of the pavement, drainage, curb & gutter, and associated lighting for the South Area Roads at the old Post Office. Reviewed contract specifications and plans to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Baltimore/Washington International Airport Runway 10-28 Extension, Maryland Aviation Authority, Baltimore, Maryland: (Airport Infrastructure) (1993-1994) Contractor Quality Control Manager for developing and implementing quality control plan on the project as well as preparing expert report and testifying as a factual witness to the wrongful termination for default claim by the Driggs Corporation. The project consisted of Runway and Taxiway Extensions including associated electrical systems (lighting and runway sensors), storm drainage, and relocation of a state road interchange with associated lighting and storm drainage. Reviewed contract specifications and plans to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities. Review contract specifications, daily reports, correspondence and quality control test results to prepare expert report.

**USA** – Patuxant Naval Airbase Runway Improvements, U.S. Navy, Patuxant, MD: (Military Airport Infrastructure) (1993) Contractor Quality Control Manager for developing and implementing quality control plan on the project. The project consisted of runway concrete panel replacement and runway asphalt replacement and associated drainage and lighting improvements. Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan and executed the plan by scheduling and performing field engineering, testing, and inspection of reinforced concrete, structural steel, bituminous concrete, subbase, subgrade, and underground utilities.

**USA** – Martin State Airport Apron Extension, Martin State National Guard, Martin State, MD: (Military Airport Infrastructure) (1993) Contractor Quality Control Manager for developing quality control plan on project. The project involved apron concrete



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panel extension with associated drainage and lighting improvements. Reviewed Contract Specifications, Plans, and CPM Schedule to prepare quality control plan.

**USA** – Richmond International Airport Apron Extension, Virginia National Guard, Richmond, VA: (Military Airport Infrastructure) (1993) Contractor Quality Control Manager for developing quality control plan on project. The project consisted of apron concrete panel extension with associated drainage and lighting improvements. Review Contract Specifications, Plans, and CPM Schedule to prepare quality control plan.

### **Government Buildings**

**USA** – Chesapeake Public Safety Operations Building, City of Chesapeake Public Works, Chesapeake, Virginia (Government Public Works) (2015 – 2017). Senior Scheduler for the preparation of cost loaded baseline schedule, the progress updates and time impact analysis during the course of the project. The site is a former unpermitted construction debris landfill purchased by the City of Chesapeake. The project consists of a 3 story Public Safety Operations Building constructed of structural steel with a combination CMU / Pre-cast envelope. The Public Safety Building ground floor will use a ventilated crawl space and methane vapor barrier. Other project components include a communications tower (190 ft monopole), electrical grounding system, and equipment service yard with emergency generators, mechanical and other equipment.

**USA** – Hampton Circuit Court, Hampton City Government, Hampton Virginia (Government Court Building) (2014), Principle Consultant for the preparation of a revised baseline CPM schedule, project updates of the revised baseline schedule and delay analysis based on the revised baseline schedule. The project consisted of a new 3-story 73,664 gross square foot steel framed building. The Project includes houses the Clerk of Circuit Court, Sheriff’s personnel, holding cells, 3 courtrooms and 2 hearing rooms and related functions, hearing room, court administrations area, and the Judge’s Chambers and associated functions. The Project site work includes landscaped street, access drive, security fencing and gates, storm drainage, and underground utilities.

**USA** – Jefferson Lab 12 GEV Upgrade Thomas Jefferson National Accelerator Facility, Newport News, Virginia (Government Laboratory Building) (2011) Senior Project Consultant for the evaluation of progress updates and preparation of independent delay/acceleration analysis on the performance of the project. The project consisted of modifications to existing buildings and utility systems to support the 12 GeV accelerator operations, an addition to the Central Helium Liquefier, including substations and cooling towers, and construction of a new experimental hall (Hall D) complex with utilities. The Hall D complex consists of an experimental hall to house GlueX experimental equipment, an extension of the tunnel to house the new beam transport



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line and tagger magnet, a counting house, tagger building, beam dumps, cryogenics plant and service buildings. Utilities include water, sewer, electricity, telecommunications, chilled water, LCW and cryogenic distribution.

**USA** – Loudoun County Fire and Rescue Training Center Expansion Loudoun County Office of Capitol Construction, Leesburg, VA, (Governmental Building) (2006) Project Consultant for the evaluation of contractor’s delayed schedule due to rock conditions. The Projects consisted of three new buildings which are the High Bay Building, the Burn Building and the Burn Building Pavilion. Both the High Bay and the Burn Building Pavilion are pre-manufactured steel frame metal buildings with useable areas of 20,500 s.f. and 880 s.f. respectively. The Burn Building is a formed-in-place concrete structure with a useable are of 8,850 s.f. All three buildings have minimal electrical and mechanical systems. The project also includes extensive site work, including new roadways, waterlines, storm water lines, and storm water retention and storage systems. Reviewed contract specifications and plans, monthly reports, project schedules, delay analysis and issue correspondence to evaluate delays and render an opinion on the validity of submitted delayed schedule.

**USA** – Cheverly Health Center Renovation, Prince George’s County Government, Prince George’s County, Maryland: (Governmental Building) (2003-2006) Project Consultant for the evaluation of contractor’s claim and preparation of Contract Administrator’s Final Decision regarding Contractor’s delay claim related to multiple contract modifications. The Project consisted of the renovation of approximately 71,580 S.F. and new addition of approximately 4,944 S.F. to the existing Cheverly Health Center located in Prince George’s County, Maryland. The Work includes, but is not necessarily limited to, all work necessary for the renovations and additions, inclusive of all floors in both the North and South wings for new clinics, offices and lab spaces. The Project includes all civil, architectural, structural, mechanical, plumbing, and electrical and fire protection work. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI’s and other project documentation such as the Project Schedule Updates, Certified Payroll and Construction Daily Reports to prepare Contract Administrator’s Final Decision. In addition, prepared As-Built Schedule Delay Analysis and expert report in preparation for court proceedings.

## Embassy

**Afghanistan** – United States Embassy Kabul, Afghanistan U.S. Department of State Overseas Building Operations, Kabul, Afghanistan. (Governmental Building) (2003-2004) Project Consultant for the review of contractor’s submitted schedule update. The project was for the design, construction and renovation of a complete new embassy office building compound.





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The work consisted of the construction and renovation of a New Office Building (NOB), Marine Security Guard Quarters (MSQG) and additional security features for housing utilities, warehouses, and a General Services Office (GSO). Reviewed contract specification and plans, monthly reports, project schedules, project correspondence to evaluate and render an opinion of the validity of the contractor's submitted schedule update.

### **Education**

**USA** – Old Donation Center and Kemps Landing Magnet School Replacement, Virginia Beach Public Schools, McKenzie Construction Corporation, Virginia Beach, Virginia (Educational Building) (2014 - 2016) Senior Scheduler for the preparation of cost loaded baseline schedule, the progress updates and time impact analysis during the course of the project. The replacement project consisted of a swing space at the old Princess Anne Middle School complex and a new 226,000 sf two to three story building which has the capacity to hold 1400 students. The lead certified building includes a geothermal wells, green house and time walk. The project also includes a gymnasium and theatrical center.

**USA** – Kellem High School Replacement Virginia Beach Public Schools, Steve Ballard Construction Company, Virginia Beach, Virginia (Educational Building) (2011-2013) Senior Scheduler for the preparation of cost loaded baseline schedule, the progress updates and time impact analysis during the course of the project. The replacement project consisted of a 2,000 student capacity 350,000 sf two story school, with 800 seat auditorium and 145 seat Black Box Theater, 4,500 seat stadium with synthetic turf football/soccer field, sustainable roof rainwater harvesting for irrigation of play fields and a Category 2 Hurricane Shelter.

**USA** – Oxon Hill Library Renovation, Prince George's County Government, , Prince George's County, Maryland: (Educational Building) (2003-2006) Project Consultant for the evaluation of contractor's Time Impact Analysis and the preparation of Contract Administrator's Final Decision regarding Contractor's delay claim related to multiple contract modifications. The renovation Project includes the addition of new exhibit spaces, theater, auditorium, secured collection spaces, common spaces, and a lounge and conference room. Fire protection suppression was to be provided in the new addition and the new and existing building areas were to be separated by a fire rated wall system with openings creating two separate building areas. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI's and other project documentation such as the Project Schedule Updates, Certified Payroll and Construction Daily Reports to prepare evaluation of Time Impact



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Analysis and Contract Administrator's Final Decision. In addition, assisted in preparation of As-Built Schedule Delay Analysis and expert report in preparation for court proceedings.

**USA** – Kingsfork High School, Steve Ballard Construction Company, Suffolk, VA: (Educational Building) (2003-2004) Scheduler/Claims Analyst responsible for the review of Contractor's project schedule updates and Time Impact Analysis for delays and impact costs related to weather, earthwork subcontractor and steel subcontractor delays. Project consisted of a new high school buildings including administration office space, class room buildings, gymnasium, auditorium, cafeteria, courtyard, atrium main entrance, associated sports fields with stadium seating and supporting utility and roadwork systems. Reviewed schedule updates, issue correspondence, specifications and plans, RFI's, submittals, and daily reports to prepare Time Impact Analysis. Assisted with the preparation of Contractor's claim, claim presentation and subsequent settlement negotiations.

**USA** – Northern Virginia Community College Performing Arts Theater Complex, Commonwealth of Virginia Office of Attorney General, Fairfax, Virginia: (Educational Building) (2003) Project Consultant for the preparation of an independent delay analysis and litigation support to a Contractor delay claim submission regarding redesign of the project's roof structure. The project consisted of a combination steel and concrete structure with a pre-cast concrete beam roof structure. The work included associated site infrastructure consisting of utility and parking improvements. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI's and other project documentation such as the Project Schedule Updates, and Construction Daily Reports to prepare independent evaluation.

### **Military Facilities**

**Iraq** – New Temporary K-Span Military Base, Army Corp of Engineers, Tetra Tech, Bagdad, Iraq (Military Base) (2008), Project Consultant for review and evaluation of Contractor Claim for delays caused by differing site conditions. The project consisted of Design and build of K-Span structures for a new Iraqi Military installation. Construction included use of ABM-120 K-Span totaling 21,300 square meters. To include cellulose insulation and the installation of doors and windows.

**USA** – Pentagon Wedge 2-5 Renovation, Hensel Phelps Construction Company, Department of Defense Arlington, VA: (Military Building) (2007) Project Consultant in charge of Project Controls (Cost Budgeting, Scheduling, Resource Management). The design/build project consisted of the complete renovation of Pentagon Wedges 2-5 over 1 million S.F of office space. The construction highlights included demolition and abatement, tenant swing space build-out, existing column



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re-stabilization, parking lot removal and replacement, mall terrace waterproofing, core & shell build-out, tenant fit-out, and commissioning. Reviewed design/build contractor's proposal, design, budget and contract documents to prepare Baseline Cost Loaded Schedule for Wedge 4 design and construction. Reported progress schedule, cost budget progress, Earned Value Management (EVM), resource management on a monthly basis to the Pentagon Renovation Program. In addition, prepared Short-Interval Production Schedule (SIPS) for universal space construction methodology and Phasing Analysis to evaluate Program Schedule bust for turnover of space.

**USA** – New Cumberland Child Development Center, Army Corp of Engineers, New Cumberland, PA: (Military Building) (2003) Project Consultant for the preparation of an independent delay analysis regarding the Contractor's request for equitable adjustment (REA) related to defective design documents. The project consisted of a single one-story 20,000 square foot building with rooms for toddler, pre-school, and school age children, as well as computer rooms, multipurpose rooms, offices, laundry facilities and a complete kitchen. The work includes civil improvements such as utilities, roadwork, playground areas, a basketball court, and landscaping. Reviewed Contractor's REA, contract drawings and specifications, correspondence, submittals, modifications, RFI's and other project documentation such as the Project Schedule Updates and Construction Daily Reports to prepare independent delay analysis.

**USA** – Pentagon Athletic Center, Pentagon Renovation Program, Department of Defense Arlington, VA: (Military Building) (2002) Project Consultant in charge of Project Controls (Cost Budgeting, Scheduling, Resource Management). The design/build project consisted of the renovation of Pentagon basement space under a Mall Terrace to incorporate a fully functional Athletic Center (Basketball Courts, Multi-Purpose Courts, Weight Room, Swimming Pool, Racquetball Courts, and Lockers) with Ancillary spaces requiring an Auditorium, TV Studio, TV Tech Center, and Mezzanine Offices. The construction highlights included demolition and abatement, tenant swing space build-out, piling foundation system, existing column removal & re-stabilization, parking lot removal and replacement, mall terrace waterproofing, core & shell build-out, tenant fit-out, and commissioning. Reviewed design/build contractor's proposal, design, budget, and schedule for accuracy and completeness. Reported progress schedule, cost budget progress, resource management on a monthly basis to the Pentagon Renovation Program. In addition, performed Top-Down Resource Analysis for entire Pentagon Renovation Program, which included the Phoenix Project (Crash Site Renovation).

**USA** – BEQ at Marine Corps Base, (U.S. Marines), Quantico, Virginia: (Military Building) (2002) Project Consultant for the review of the Initial CPM Schedule submitted by the contractor on this project. The project involves design and construction of two 3-story Bachelor Enlisted Quarters (BEQ) including three parking lots and related incidental work such as utilities



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(waterline, sanitary line, storm drainage, lighting). The project also involves the demolition of two existing building structures located on the base. Reviewed the contract specifications and plans to prepare the Initial CPM review report.

**USA** – Fort Belvoir – Bldg. 358 Renovation, U.S. Justice Department, Fort Belvoir, VA: (Military Building) (2001) Project Consultant for assistance in the review of the contractor’s claim of delays and cost overruns due to change orders. The project consisted of the renovation of the existing building (demolition, interior framing, electrical & mechanical, interior finishing, exterior finishing, etc.) and associated site work (paving and landscaping). Reviewed daily reports and project schedules to prepare as-built schedule and evaluate as-built construction conditions and delays.

**USA** – Bachelor Enlisted Quarters (BEQ) Alterations (Project N62477-96-D-0157-D0015), U.S. Navy, Navel Surface Warfare Center, Dahlgren, VA: (Military Building) (2001) Project Consultant for preparation of independent analysis of the Request for Equitable Adjustment submitted by the Contractor for time extensions and impact costs due to the delay caused by the Roof Steel Submittal, Roof Steel Design Conflicts, and the D-Wing Additional Scope. The alterations included demolition of a portion of the existing Building 962 and construction of a new BEQ connected to the remaining portion of Building 962 (D-Wing). Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI’s and other project documentation such as the Project Schedule Updates to prepare the independent analysis expert report.

**USA** – Phase 4 Clinic and Bed Tower Veteran’s Administration Palo, Alto Medical Center Renovation, Department of Veterans Affairs, Palo Alto, CA: (Military Hospital) (2004) Project Consultant for the preparation of an independent evaluation for the Delay Claim submitted by the Contractor for time extensions and impact costs due to the alleged delays caused by design deficiencies and contract modifications. The project consisted of the renovation seismic upgrade of the existing Medical Center and new construction of additional wings as a result of the Palo Alto, CA earthquake. The construction project featured two main components: a new 228-bed, 635,000 SF hospital complex and a 4-story, 136,000 SF research/administrative building. The research facility is connected to the hospital by a bridge walkway. The new seismic corrections to the structures greatly improve their ability to withstand future earthquakes and includes, among other things, 4-foot-thick concrete mat foundations and a braced steel frame. The new facility also includes 10 OR’s, 70 laboratories, and 30 ICU rooms. Additionally, state-of-the-art air quality and fire protection systems were installed throughout the entire complex. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI’s and other project documentation such as the Project Schedule Updates, Certified Payroll, and Construction Daily Reports to assist in preparing the independent evaluation expert report.



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**USA** – Ambulatory Care Phase II - Renovation, Carl T. Hayden Medical Center, Department of Veterans Affairs, Phoenix, AZ: (Military Hospital) (2003) Project Consultant for the preparation of an independent evaluation for the Delay Claim submitted by the Contractor for time extensions and impact costs due to the alleged delays caused by design deficiencies and contract modifications. The project consisted of the build-out of tenant swing-space, asbestos abatement, demolition, and renovation for the Life Safety Unit (LSU), Physical Therapy / Rehabilitation Department, Behavioral Health Department, Laboratories, CT Scan & Ultrasound Area, ENT Department, and Surgical Area. The work performed included installation of new concrete, metal stud framing, drywall, insulation, lay-in ceiling, flooring, glass, doors, hardware, wall finishes, ceramic tile, painting, mechanical, electrical, plumbing, and special systems. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI's and other project documentation such as the Project Schedule Updates, Certified Payroll, and Construction Daily Reports to prepare independent evaluation expert report.

**USA** – Dallas / Fort Worth National Cemetery, Department of Veterans Affairs, Dallas, TX: (Military Cemetery) (2003-2004) Project Consultant for the preparation of an independent evaluation for the Delay Claim submitted by the Contractor for time extensions and impact costs due to the alleged delays caused by contract modifications. The project consisted of the construction of a new Main Entrance, Administration / Maintenance Complex, Public Information Center, Flag / Assembly, Memorial Walkway / Donation, Committal Service Shelters, Lake, Columbaria & Garden Niches, Carillon Tower, and approximately 14,600 Gravesites (including 2000 Lawn Crypts). The work performed included associated irrigation system piping, mechanical and electrical work, and additional site work. Reviewed contract drawings and specifications, correspondence, submittals, modifications, RFI's and other project documentation such as the Project Schedule Updates and Construction Daily Reports to prepare independent evaluation expert report. In addition assisted with mediation presentation and final settlement negotiations for the equitable resolution of the claim.

### **Commercial Buildings**

**Canada** – Sheraton Centre Toronto, Starwood Hotels and Resorts, Gilliam Group, Toronto, Canada (Hotel Renovation) (2015). Senior Scheduler for preparation of accelerated completion schedule. The Project consists of the complete renovation of 1373 guestrooms and includes full renovation of typical guestrooms, suites and corresponding corridors housed in the Richmond Tower, Queen Tower and Cabana Buildings.



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**Saudi Arabia** – King Abdullah Financial District (KAFD), Rayadah Investment Corporation, Saudi Bin Ladin Group, Riyadh, Kingdom of Saudi Arabia (KSA): (Commercial/Financial/Residential Complex) (2013), Senior Project Consultant for the Risk Analysis and Evaluation of contractor claims for delay and variations. KAFD is a new development under construction near King Fahad Road in the Asahafa area of Riyadh, KSA being undertaken by the Rayadah Investment Corporation on behalf of the Pension Authority of the KSA, consisting of 34 towers in an area of 1.6 million square meters. It will provide more than 3 million square meters of space for various uses, 62,000 parking spaces and accommodation for 12,000 residents. In 2011 it was the largest project in the world seeking green building accreditation.

**Dubai** – The Dubai Mall, Dulco-Balfour Beatty – CCC JV, Dubai, UAE: (Commercial/Retail Mall Complex) (2008) Senior Project Consultant for the review of contractor claims for delay and variations and for preparation of Risk Analysis of Project Final Account. The project is considered the largest retail mall in the world with associated utilities and man-made lake features. The structure included an Olympic size ice rink, Aquarium, multiplex theater complex and multi-story Hotel. Reviewed contract specifications and plans, daily reports, project schedules, contemporaneous correspondence and cost data to prepare risk analysis matrix evaluating potential risks that would jeopardize project delayed completion and final cost account of project.

**Dubai** – Dubai Festival City Office Building Complex 14a, Al-Futaim Enterprises, Hastie International, Dubai U.A.E. (Multi-Story Office Complex) (2008). Senior Project Consultant for the preparation of resource loaded Baseline CPM Schedule. Project consisted of nine 5-story office buildings with associated civil exterior works including multi-story parking garages. Reviewed project plans and specifications, resource histograms and productivity reports to prepare the Baseline CPM.

**Dubai** – Corniche Hotel, Bin Salem Development Group, Soil-Technology Foundations L.L.C., Abu Dhabi, U.A.E. (Multi-Story Hotel Complex) (2008). Senior Project Consultant for the preparation of the enabling (deep excavation/foundation) contractor's EOT claim related to owner delays in obtaining construction permits and NOCs. The project consisted of a deep excavation diaphragm wall with dewatering and piling foundation systems for a Multi-Story Hotel along coastal water. Reviewed contract documents including contract agreement, subcontract agreements, project construction drawings, CPM schedules, and contemporaneous correspondence to prepare contractor's EOT claim.

**Dubai** – Hotel Jal – Mixed Use Office Complex, ACICO, Hastie International, Dubai, U.A.E. (Hotel/Office Mixed Use Complex) (2007-2008). Senior Project Consultant for the preparation of a fully cost and resource loaded baseline CPM schedule and evaluation of cash flow and resource histograms for the MEP subcontractor to integrate into the Project Master Schedule.



## **PERRY INTERNATIONAL, LTD.**

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The project consisted of a 51-story Hotel Tower and 45-story Office Complex with two 10-story Car Parks and associated utilities. Reviewed subcontract, bill of quantities (BOQ), drawings, and project status to date to prepare CPM schedule. In addition established update procedure for the CPM schedule for ease of importing and exporting project progress and evaluation of critical path and resource and cash flow histograms.

**Dubai** – Gate Village, Dubai International Financial Center, Arabtec L.L.C., Dubai, U.A.E.: (Office Building Complex) (2007-2008). Senior Project Consultant for the preparation of contractor’s EOT claim related to multiple engineering instructions issued during the course of construction. The project consisted of the core and shell of nine mid-story building complexes and related external works in the heart of the Dubai International Financial Center (DIFC). Reviewed contract documents, project drawings, CPM schedules, engineering instructions, cost report data and contemporaneous project correspondence to prepare contractor’s EOT claim. In addition assisted with the preparation of expert quantum report for litigation proceedings against the defaulted elevator subcontractor.

**Dubai** – The Dalma Mall, The Developers, Darwish Engineering Emirates, e.Construct, Hastie International, Abu Dhabi, Musaffah UAE: (Commercial/Retail Mall Complex) (2007-2008) Senior Project Consultant for the review of contractor claims for delay and preparation of Time Impact Analysis and Revised Acceleration Schedule. The project consisted of one three-story complex and two multi-story car parks with associated utilities and pre-cast structure and exterior wall panels. Reviewed contract specifications and plans, daily reports, project schedules, contemporaneous correspondence and cost data to assist in the preparation of the delay and cost analysis Time Impact Analysis and Revised Acceleration Schedule, which showed how the pre-cast structure installation was to be performed. In addition prepared resource and cost loaded baseline and accelerated CPM schedule and assisted with the preparation of bi-weekly updates including critical path analysis and evaluation of resource and cash flow histograms. Also prepared risk analysis matrix evaluating potential risks that would jeopardize project on-time completion.

**USA** – Millennium Building, Sigel Construction Company, Washington D.C.: (Commercial High Rise Building) (2000) Claims Analyst for the review of contractor’s claim that curtain wall contractor delayed the project and caused cost overruns. The project consisted of the complete renovation of an 8-story business complex interior and exterior including the addition of 4-new stories. The work included the interior demolition, elevator shaft renovation, concrete and steel structure additions, curtain wall system façade, and interior finishing. Reviewed contract specifications and plans, monthly reports, project schedules, contemporaneous correspondence and cost data to prepare delay and cost analysis expert report.



## Residential High Rise

**Dubai** – On behalf of the Contractor for the Central Park 08 Residential Tower/Office Complex at the Dubai International Financial City DIFC. Project Consultant for the review of contractor claims for delay and assistance of preparation of baseline schedule. The Project consisted of two 44-story concrete towers one pre-cast and one cast-in-place with associated utilities and pre-cast exterior wall panels. Reviewed contract specifications and plans, daily reports, project schedules, and contemporaneous correspondence and cost data to assist in the preparation of the delay and cost analysis reports.

**Dubai** – On behalf of the Owner for the Juma Al-Majid Residential Complex in Sharjah. Project Consultant for the review of contractor claims for delay. The project consisted of two 19-story concrete towers with associated utilities and pre-cast exterior wall panels. Reviewed contract specifications and plans, daily reports, project schedules, contemporaneous and correspondence and cost data to assist in preparation of the delay and cost analysis reports, and assist with development of 4-D model that showed how to install the exterior pre-cast panels.

**USA** – On behalf of the city government Owner renovating the O'Donnell Heights Community Building in Maryland. Claims Analyst for review of the contractor's claim for delays and cost overruns due to change orders.

**USA** – On behalf of the Contractor for construction of the Virginia Square in Virginia. Field Engineer responsible for the inspection of the foundation system and structural concrete construction. The project consisted of a 16-story complex including a 4-story underground garage.

**USA** – On behalf of the Contractor for construction of the Leisure World Phase 1 project in Virginia. Field Engineer responsible for the inspection of the foundation system and structural concrete construction of the 12-story complex and associated site work.

**USA** – On behalf of the Contractor for construction of the Richmond Square project in Virginia. Field Engineer responsible for the inspection of the foundation system and structural concrete construction. The project consisted of a 19-story building including a 4-story underground garage.

**USA** – On behalf of the Contractor for construction of the Carlyle Towers Phase 1 in Virginia. Field Engineer responsible for the inspection of the foundation system and structural concrete construction. The project consisted of 19-story building with connected town-homes at the base of the structure.





### Golf Course

**Canada** – On behalf of the Contractor for the Rosedale Golf Club House Renewal Project in Toronto, Canada. Principle Consultant for preparation of as-built delay analysis and expert report for mediation proceedings. The Project consisted of abatement, demolition and renovation of a three-story clubhouse and ancillary facilities.

### Horse Race Course

**Dubai** – On behalf of the Contractor for the Dubai (Meydan) Horse Race Course Project in arbitration. Senior Project Consultant for the preparation of the Joint Venture EOT claims related to variation orders directed by the Engineer and risk assessment for on-time completion of the project. The project consisted of a fast-track reinforced concrete and structural steel hotel, museum, grandstands, and a 2400 m turf and soil horse race course.

### National Monuments

**USA** – On behalf of the Owner (U.S. National Park Service) of the Lincoln Memorial Circle Rehabilitation Project in Washington D.C. in arbitration. Senior Claims Analyst responsible for review of the Contractor Time Impact Analysis for delays arising from unforeseen and changed conditions and assisting in settlement negotiations.

**USA** – On behalf of the Owner (U.S. National Park Service) of the Edison National Historical Rehabilitation Project in New Jersey in arbitration Senior Claims Analyst responsible for review of the Contractor Time Impact Analysis for delays arising from unforeseen and changed conditions and assisting in settlement negotiations.

**USA** – On behalf of the Contractor for the National Aquarium Project in Maryland in arbitration. Senior Claims Analyst responsible for preparation of the Contractor Time Impact Analysis for delays arising from unforeseen and changed conditions and assisting in settlement negotiations.