

MDCSystems®

Providing Expert Project Delivery Solutions Worldwide

MDCSystems® is a project and construction management consulting organization with over 40 years of experience serving clients and industries both nationally and around the globe. MDC®'s diverse project experience ranges from residential property developments to pharmaceutical plants to highway excavation and construction.

MDC® concentrates its services in primarily four areas: Building Diagnostics & Performance Analysis; Program & Project Management & Monitoring; Forensic Project Management/Construction Claims; and Strategy & Management Consulting.

MDC® combines its experience in the design and construction arenas with its forensic analysis expertise to provide our clients with a thoughtful assessment of where a project is most likely to go or a robust understanding of how the law of unintended consequences can put you in places you hadn't expected. MDC® can help you optimize, realize, and extend the value of your investment, and help you ensure that your project goals are met. MDC® can analyze building and system performance and provide input on project execution or delivery options that will help you achieve the outcomes you were expecting.



MDCSystems® Summary of Services:

Program & Project Development including:

- Performance Assessment & Benchmarking
- Project Modeling including:
 - "What if..." Scenario Analyses
 - Variability/Sensitivity Analyses
 - Fault Tree Studies/Risk Assessment & Mitigation
- Project Planning including:
 - Feasibility Studies
 - Master Scheduling including Resource and Constraint Analysis
- Project Monitoring Including:
 - Schedule Compliance
 - Cash Flow & Resource projections
- Consulting Services including:
 - Sustainability/Green Buildings
 - Peer Review
 - Building Performance Diagnostics

Forensic Analyses including:

- Building Systems:
 - Architectural incl. Building Envelope
 - HVAC/Mechanical, Electrical & Piping
 - Structural
 - Instrumentation & Controls
 - Design Errors & Omissions (Standard of Care)
 - Differing Site Conditions
- Forensic Project Management®:
 - Schedule Analysis
 - Procurement - Bid/Award Transparency
 - Scope Definition and Change
 - Labor Productivity & Inefficiency
 - Termination - Default or Convenience
- Value Engineering
 - Life Cycle Cost Analysis

knowledge
experience
credentials

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MDCSystems® Selected Recent Assignments

Engineering Consulting and Technical Analyses:

- Executive level analysis of energy options and opportunities for a major municipality
- Analysis of Moisture Migration and RH Control in a Microelectronics Product R&D Facility (Colorado)
- Analysis of & Reduction in Energy Consumption at a “Green” School (Pennsylvania)
- Peer Review of Conference Center Design & Design Supervision for a Radiant Heating/Cooling Floor Addition (New Jersey)
- Peer Review of Schematic Engineering Design Effort for Hospital Complex (Qatar)
- Analysis of Formaldehyde Outgassing from Construction Materials (Pennsylvania)
- HVAC System Failures in Pharmaceutical Packaging Facility (New Jersey)
- Analysis of Piping System Joint Failures at a Hospital Central Plant (New Jersey)
- “Standard of Care” dispute due to chemical process equipment explosion (Colorado)
- Analysis of Destructive Vibration/Harmonics on Large Industrial Compressors at a Chemical Plant (Louisiana)

Project Management, Execution, & Construction Claims:

- Excess Rock Excavation Claim on a Highway Project - Unforeseen Conditions (New Jersey)
- “Standard of Care” dispute between contractor and engineering consultant on a design-build project (Indiana)
- Schedule Delays and Change Orders on multiple Airport Projects for Major Equipment Supplier (Various)
- Schedule Delays and Associated Cost Overruns for Underwater Pipeline Project (Ireland)
- “Standard of Care” Defense - Design of a Food Processing Facility (Pennsylvania)
- Industrial Plant Rebuilt Cost Insurance Claim Dispute (Texas)
- “Standard of Care” Defense - Design and Documentation of a Pharmaceutical Plant using BIM 3D Modeling (Texas)
- “Standard of Care” Plaintiff - Delay and Cost Overruns for a Pharmaceutical Plant using BIM 3D Modeling (Singapore)
- Excess energy use dispute between tenant and commercial landlord (New York)



MARKETS SERVED: Commercial, Institutional, Industrial, Educational, and Residential projects, Critical Facilities (data centers, hospitals), transportation and infrastructure, laboratories, pharmaceuticals, power plants, water & wastewater plants, manufacturing, and refineries.