FIRM OVERVIEW



Encorus Group is a professional engineering, testing, and inspection services firm with offices in Buffalo and Springville, NY. Founded in 1996, the firm now has a staff of over 70 full-time employees, including licensed Professional Engineers in all major disciplines and a registered architect. This allows Encorus Group to offer a comprehensive in-house solution for any project, no matter how big or small. In addition, our civil materials testing, non-destructive examination, and

mechanical integrity asset management divisions offer a wide range of inspection services to meet the needs of our industrial, commercial, nuclear, manufacturing, healthcare, and higher education clients.

Additionally, Encorus Group is verified as a Service-Disabled Veteran-Owned Small Business (SDVOSB) at both the federal and New York State levels.



Nuclear Quality Assurance Compliance

Encorus Group performs work to its established ASME NQA-1 Quality Assurance Program. Our program was established in 2005 and has continually evolved to better meet the intent of our work, the needs of our clients, and generally to improve its effectiveness. The current Encorus Group Quality Assurance Program is organized to address requirements of NQA-1 2008, including NQA-1 2009 addendum, as applicable to our work.

The QA Program identifies a set of implementing procedures for each of the sections of the QA Manual applicable to our work. All Encorus personnel are qualified and trained in the proper use of the program and perform work to the procedures identified in the QA Manual to address and implement each of the 18 requirements of NQA-1.

PARTIAL CLIENT LIST

















































Miny () High Client Relationship Menager Ct, 716,6662,389() est, 165 Mt, 716,384,2727 monelligiencova,com



Epsin Opp Director of Mariesing 0:718,592,2880 est, 150 M; 718,280,2814 Impp@encorus.com



ENGINEERINGDESIGN

Civil, Structural, Mechanical, Electrical, Automation, Fire Protection, Architecture

MATERIALS**TESTING**+

Concrete, Masonry, Soils, Asphalt, Structural Steel, Non-Destructive Examinations

INSPECTIONSERVICES

API, NBIC, CWI, NACE, Asset Integrity Management + Fitness for Service Evaluations

Civil Engineering

- Civil/Site Design
- Land Development
- Radiological Waste Handling
- Drainage Design
- Dams/Ponds
- Construction Support
- Potable Water Source Development/ Treatment/Distribution

Structural Engineering

- New Building Design
- Existing Structure Analysis/Renovations
- Foundation Design
- Seismic and Wind Analysis
- · Non-Building/Equipment Support Design

Mechanical Engineering

- Machinery Redesign and Improvements
- **HVAC** Design
- Stress Analysis of Equipment
- Finite Element Analysis (FEA)
- Piping Design
- Pressure Vessel and Tank Design
- Decontamination and Decommissioning

Electrical Engineering

- Single Line Drawing Development
- Power Distribution Design
- Power Equipment Sizing and Specification
- Ground Grid Systems
- Raceway Systems
- Substation/Switchgear Design

I+C Engineering

- · Control Systems (Hardwired, PLC, HMI)
- Control Panel Design
- SCADA System Design & Integration
- DCS (PlantPAx)
- Allen Bradley Certified Service Integrator
- Audio System Design

Fire Protection Engineering

- Lightning Protection Assessments
- Custom Fire Detection Design
- Special Hazards Suppression System Design
- Glovebox, Hot Cell, and Lab Hood Fire Suppression Design
- Code Interpretation/Application

Forensic Engineering

Expert Witness/Litigation Support/Evaluations

Architecture

- Planning and Design
- **Building Assessments**
- Construction Administration
- Design-Build Support
- Non-Destructive Exterior Envelope Surveys
- Roof Assessment and Design

Process Engineering

- Process Flow (PFD) and Piping & Instrumentation (P&ID) Diagram Creation
- Heat & Mass Balance and equipment sizing calculations
- Process Hazard Analysis (PHA) Facilitation
- Pressure Safety Valve (PSV) Sizing

Project Management

- Complete Project Management from Inception through Completion
- Development of Cost Estimates, Schedules, and Project Scope Documentation
- Development of Project Risk Management Plans
- Application of Earned Value Management

Field Testing/Inspections

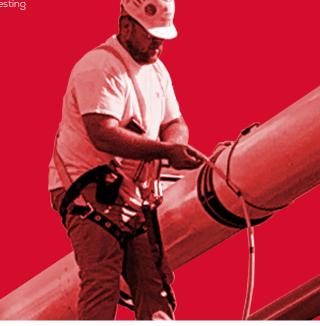
- Concrete Field Inspections
- Floor Flatness Testing
- In-Place Density Testing
- Fireproofing/Fire Stopping Inspections
- Certified Welding Inspections
- ICC Special Inspections
- Asphalt Field Testing
- Wood Framing Inspections
- **EIFS Inspections**
- Masonry Inspection
- Dynamic Cone Penetrometer Testing
- Structural Steel Inspections

Laboratory Testing

- · Compressive Strength Testing
- Concrete Mix Design Verifications
- Grain Size Analysis
- Atterberg Limits Testing
- Hydrometer Analysis
- Asphalt Testing
- **USCS Soils Classification** Specific Gravity Testing
- Standard/Modified Proctors
- pH/Organic Testing
- Permeability Testing

Non-Destructive Examination Services

- Ultra Sonic Shearwave/Thickness Testing
- Magnetic Particle Testing
- Liquid Penetrant Testing
- Visual Testing
- Radiographic Testing
- Positive Materials Identification
- Hardness Testing
- **Bolt Torque Testing**
- Leak Testing
- Anchor Bolt Pull Testing
- Welder Qualification Testing PQR, WPS, WPQ
- Ground Penetrating Radar



API 5L0/570/653 Inspections

- **NBC Inspections**
- Steel Timb Institute SPQ01 Inspections
- Permaylvanto DEP Tank Iraquections
- NACE Coolings Impactions/Specifications
- Certified Welding Impactor (CWI)
- Recol: Procedure Davelopment
- API Risk Bound Impaction Programs
- Fitness for Service/Follure Analysis Vendor Surveillance
- NYS DEC Chamical Bulk Storage Impactions
- NYS DEC Patroleum Bulk Storinge
- EPA Spill Prevention Control/ Countermeasure Plans
- Februarium CA/CC-Vermale, Piping, Tontes, FRP
- P-ID Rold Wolldowns and Verification
- Pressure Relief and Vent System Design Books
- Impaction Monogement Services Program Development/Turnoround Planning











American

Petroleum Institute

















