



CONSULTING & FIELD SERVICES

MECHANICAL INSPECTION • NDT • REFRACTORY INSPECTION • REFRACTORY TESTING

SERVING THE ENERGY & INDUSTRIAL MARKETS SINCE 1995

CFSINSPECTION.COM

OUR PEOPLE MAKE THE DIFFERENCE.

Consulting & Field Services (CFS) is an inspector-owned inspection company. Since 1995, CFS has been committed to delivering industry-leading Mechanical Inspection, Non-Destructive Testing (NDT), Refractory Inspection, and Refractory Testing services. Our experienced professionals provide clients with the highest standards of quality, reliability, and technical expertise.

WHAT SETS CFS APART

- Safety First Thinking
- Client Satisfaction
- All Activities Performed with Integrity
- Competitive Pricing
- Quality Service
- Quick Response and Report Results
- Flexibility, Repeatability & Reliability



SAFETY · INTEGRITY · EXCELLENCE.
THE CFS WAY.

CFSINSPECTION.COM

SAFETY FIRST. ALWAYS.

At CFS, safety is more than a requirement — it is a core value. We are committed to protecting our employees, clients, subcontractors, and the communities where we work through disciplined safety practices, ongoing training, and accountability.

PROMOTING A CULTURE OF SAFETY

Safety is more than a priority—it is a commitment. From the office to the field, our team embraces a culture of accountability, proactive training, and safe work practices. Through continuous education and responsible operations, we are dedicated to protecting our employees, clients, and communities while ensuring everyone returns home safely each day.

SAFETY ASSURANCE

- Job Safety Analysis
- Near-Miss Reporting
- Behavior-Based Audits
- Safety Metrics & Reporting

SAFETY TRAINING & COMPLIANCE OFFERED

- NCCER OQ Training
- American Red Cross First Aid and CPR Training
- OSHA Construction 10- and 30-Hour Training
- Comprehensive Safety Training Program Binders
- Fall Protection & Prevention Awareness
- Confined Space Entry Awareness
- Lockout/Tagout (LOTO) Procedure Awareness

OUR CAPABILITIES

INDUSTRIES SERVED

- Refineries
- Gas Plants
- Compressor/Booster Stations
- Terminals
- Power Plants
- Chemical Plants
- Tank Farms

INSPECTION EXECUTION PROCESS

- JSA & Permit Compliance
- Visual Inspections
- NDT Data Collection
- Inspection Reporting
- Safety Concern Reporting
- Project Tracking
- Findings Summary

MECHANICAL INTEGRITY SOLUTIONS

- On-stream Mechanical Integrity Inspection
- Turnaround Inspection Planning and Execution
- Specialized NDT Services
- Vendor/Fab Shop Surveillance/Inspection
- AutoCAD®
- Mechanical Integrity Program Consulting
- Data Processing PCMS® / PSAIM® / Cloud-Based Services
- Baseline / Reinspect / Run and Maintain
- Project QA/QC
- NACE Coating Inspection
- Fitness-for-Service
- New Construction
- Circuitizing and Redline P&IDs

OUR CAPABILITIES – CONTINUED

TRADITIONAL NDT SERVICES

- UT - Ultrasonic Testing
- MT- Magnetic Particle Testing
- PT- Penetrant Testing
- PMI - Positive Material Identification
- MFL - Magnetic Flux Leakage
- Vac Box – Vacuum Box
- Hardness Testing
- UT Scanning
- Borescope

SUBSIDIARY

REBL REFRACTORY EVALUATIONS LAB, LLC

- Ceramic Engineering
- Infrared Thermography Imaging

INDUSTRY CERTIFICATIONS & QUALIFICATIONS

- API 510 Pressure Vessel Inspection
- API 936/982 Refractory Inspection
- API 570 Piping Inspection
- API 653 and STI/SP-001 Tank Inspection
- API TES Tank Entry Supervision
- AWS/CWI Certified Welding Inspection
- NACE CIP Level I and II Inspection
- AutoCAD Design

INDUSTRY QUALIFICATIONS & AFFILIATIONS



American
Petroleum
Institute



REFRACTORY DIVISION

CFS establishes and maintains quality standards, processes, and procedures in accordance with API 936, ASTM, and industry best practices. We provide comprehensive turnkey refractory inspection, consulting, and laboratory testing services, supporting projects from initial planning and material qualification through installation, commissioning, and final project completion. Every project is executed with an unwavering commitment to safety, quality, technical excellence, and attention to detail.

Our integrated team of experienced on-site API-certified inspectors, ceramic engineers, and advanced laboratory professionals delivers accurate inspections, timely testing, and reliable technical support throughout every phase of a project. By combining field expertise with in-house laboratory capabilities, we streamline project execution, reduce turnaround times, minimize operational delays, and help improve the overall client experience. Guided by our core values of safety, integrity, customer service, and accountability, CFS proudly supports upstream, midstream, and downstream operations with dependable refractory solutions that enhance asset reliability, operational performance, and long-term value.

REFRACTORY LABORATORY CAPABILITIES

- All lab equipment is calibrated per ASTM and API 936
- Reference checks are regularly made
- Infrared Thermal Imaging – FLIR E60 Thermal Camera
- 250,000 lbs. Compression Tester
- ASTM and API 936 Abrasion Cabinets
- Ovens, Furnaces, Digital Scales, Calipers, Hook Rules, and Dial Gauges
- Thermocouple and controller monitored high temperature kilns
- Pressure gauges

TESTING METHODOLOGIES

- Density – ASTM C134
- Abrasion Testing – ASTM C704 and 704M
- Crush and Modulus Strength Tests – ASTM C133
- Linear Change Testing – API 936
- Sample Preparation and Firing ASTM C860, C862, C865
- Customized Test Plans

PROCESSES AND PROCEDURES

- Strict Adherence to Standards
- Data Traceability and Integrity
- Repeatability of Processes via Lab Procedures

REFRACTORY DIVISION – CONTINUED

PROJECT, TURNAROUND, AND OUTAGE REFRACTORY INSPECTION

INSTALLATION QUALITY ASSURANCE PROCESS

- Initial Inspection and Development Scope of Work
- Pre-qualification of Materials and Installers
- Monitor of Demolition of Existing Refractory
- On-Site Installation Surveillance
- Pre- and Post-Dryout Lining Inspections
- ITP (Inspection Test Plan) Sign-offs
- Final Documentation at completion of installation
- Risk Based Assessment and Documentation
- Upgrade Reliability when possible
- Start up process and procedures

DRY TIMES AND START-UP PROCESS

- ASAP, technically sound and safe
- Work with plant operations and product manufacturers

INSPECTION REPORTS & DOCUMENTATION

- Inspection: FCC, SRU, Heaters, Boilers, Oxidizers, Reformers, Kilns, etc.
- Refractory Test Reports
- Refractory History of Process Units and Equipment
- Comprehensive Inspection Notes and Findings

CONTACT US

CFS provides inspection and consulting services across the United States and Canada, with offices and laboratory facilities positioned to support our clients throughout North America.

CFS CORPORATE OFFICE

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