



STRESS ANALYSIS

Experience you can trust

Lauren's seasoned team of multi-disciplinary professional engineers delivers superior stress analysis solutions across North America's energy infrastructure. Our specialized expertise serves the oil and gas, oilsands, pipeline, and storage facility sectors with precision engineering that optimizes performance while ensuring complete regulatory compliance.

Partner with Lauren for stress analysis that combines technical excellence with practical implementation, ensuring your critical infrastructure performs reliably under real-world conditions.

COMPREHENSIVE STRESS ANALYSIS CAPABILITIES

- Code-compliant pipe stress analysis customized to your specific project requirements
- Precision equipment nozzle load calculations protecting critical infrastructure
- Strategic piping layout optimization for maximum operational efficiency
- Robust support design and verification ensuring long-term system integrity

TECHNICAL ADVANTAGE

Leveraging advanced stress analysis software, expert hand calculations, and industry best practices, we deliver solutions that are:

- Fully code and regulatory compliant
- Optimized for cost-effectiveness
- Meticulously designed within project parameters
- Delivered on schedule to keep your project moving

SUPPORTING SERVICES

Facility

- ASME B31.3 design calculations
- Static and rotating equipment nozzle checks
- Evaluating piping within temperatures ranges from -75° C to 425° C
- Cyclic service
- Large bore diameter piping
- Vibration fatigue
- Specialty support designs

Pipeline

- CSA Z662, ASME B31.4, and B31.8 design calculations
- Pipeline route stress analysis
- Riser and pig receiver/launcher design
- Vibration fatigue
- Specialty support designs

Software

- AutoPIPE

FEA Analysis

- Provided through 3rd party consultants



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LAUREN
Engineering & Project Delivery