



consulting inc.
Engineering Expertise for Insurance and Industry





E2I2 Consulting Inc. is a claim focused, mechanical engineering consulting company based in Calgary, Alberta. The company specializes in losses and incidents in the commercial and industrial sector, with a strong concentration in the production of the oil and gas. Incidents resulting in damages from a few thousand dollars to Canada's largest insurance claim valued at over US\$1 Billion are part of the E2I2 portfolio.

Primary services offered are:

- Forensic or Cause and Origin Investigation
- Claim Consulting
- Claim Preparation/Assessment
- Litigation Support

Utilizing its unique experience, E2I2 Consulting Inc. also offers complementary services such as:

- Claim Response Planning
- Risk/Hazard Assessment
- Incident Prevention and Mitigation Planning

E2I2 Consulting Inc. provides the bridge between the technical world of engineering, operating, construction and maintenance and the equally specialized world of claims and litigation.



FORENSIC ENGINEERING SERVICES

Investigation work is one of E2I2 Consulting Inc. 's cornerstone services. It is built on over 18 years of experience with numerous incidents in a variety of industries.

Forensic investigation services include:

- Fire cause and origin
- Production equipment failure (rotating and pressure)
- Petroleum and Petrochemical process upset
- Product contamination



E2I2 Consulting Inc 's experience includes:

- Well and production dehydration units
- Well and production separators
- Amine sweetening units
- Propane refrigeration units
- Reciprocating and turbo compression
- Power turbines (low emissions)
- High temperature and pressure reactors
- Ball and rod mills
- Vibrating screens
- Rotating kilns
- Fired Boilers
- Flat plate exchangers
- Tube and shell exchangers
- Cogeneration boilers
- Commercial refrigeration units
- Fixed and mobile cranes
- Hydrogen reformer furnaces
- Class 8 highway tractors
- Heavy Bulldozers (D7 through D11 and D475)
- Pharmaceutical mills

E2I2 Consulting Inc. investigations go beyond just the broken piece to identify why a system operated the way it did. Using a sound and broad engineering background, investigations include the use of operator and witness accounts and histories, technical drawings and specifications, and process and mechanical histories. Reporting directly to our clients or through counsel, E2I2 Consulting Inc tailor's the scope of its reports to the needs of the client, indentifying the immediate cause (s) , initiating and root causes and providing recommendations for improvement as required.

E2I2 Consulting Inc. has a varied client base including oil and gas juniors, majors, industrial manufacturers, service suppliers, Insurers, adjusters and law firms.



CLAIM SUPPORT SERVICES



Claim support is another cornerstone service and is built on extensive claim experience from small claims through to Canada's largest insurance claim.

E2I2 Consulting Inc. focuses on property damage which establishes the direct claim support and the basis to establish duration

and impact to operations, both key factors in the evaluation of business impact claims.

Claims involve more than just assembling or reviewing invoices, whether the claim is driven by contract, insurance, or litigation. To meet these needs E2I2 Consulting Inc. provides the following services:

- Claim preparation
- Claim evaluation
- Claim process mapping including milestone activities and schedule
- Single point, secure, web based data collection and distribution services
- Damage scope development, assessment and documentation
- Construction scope assessment and documentation
- Development and evaluation of cost control or work breakdown structures
- Invoice collection and review
- Compensable and non compensable impact identification

Strong technical skills and extensive experience in operations, maintenance and construction allows E2I2 Consulting Inc. to bring effective, efficient strategies to a claim that are customized to an individual client's needs and yet fit the traditional requirements of the claim industry.

E2I2 Consulting Inc. also provides claim support through its membership in ERMG. The independent contractors of ERMG work together to provide à la carte claim support services, from document management and technical claim valuation through to claim facilitation.



LITIGATION SUPPORT SERVICES

The litigation process usually involves both legal and technical issues. E2I2 Consulting Inc. provides the technical support to claimants and respondents alike. The firm is a specialized, claims focused, forensic engineering firm. Through ongoing participation in industry, it brings a high level of understanding of the many issues and processes involved in litigation.



E2I2 Consulting Inc. provides premier support for litigation activities including:

- Forensic incident investigation
- Damage scope assessment
- Property or physical damage restoration cost review
- Actual Cash Value (ACV) determination from replacement costs
- Identification and separation of compensable vs. non-compensable costs
- Schedule impact activities
- Critical path assessment

For those incidents requiring even more specialized technical skills such as detailed design experience with a specific piece of equipment or phenomenon, E2I2 Consulting Inc. can :

- Identify relevant experts, providing a short list of vetted candidates
- Monitor scope of investigation
- Provide interpretation of technical reports

Our clients are involved with industrial/commercial claims with a concentration on the oil and gas and heavy industrial construction sectors. E2I2 Consulting Inc.'s specialization means clients receive efficient and effective support for their claim.



RISK IDENTIFICATION AND MANAGEMENT SERVICES



E2I2 Consulting Inc. has extensive experience in the investigation, evaluation, and management of losses. This experience has highlighted that often simple changes or controls can be instrumental in avoiding or significantly mitigating a loss.

E2I2 Consulting Inc. offers its clients the benefit of this experience through facility and procedural reviews. Specifically, these services cover:

- Facility Inspection (physical layout and controls)
- Operational Procedures review
- Maintenance procedures review
- Incident Prevention and Mitigation Plan Review
- Claim Response Planning

These reviews often produce low cost, high impact changes that can significantly reduce the probability and/or the severity of an incident, whether it impacts personnel or equipment.

E2I2 Consulting Inc. also has experience developing Severity/Probability Risk Matrices for various companies and facilitating formal Risk Assessments. The unique experience of E2I2 Consulting Inc. can result in better focus and more realistic assessment of either the probability or the severity of an event.

E2I2 Consulting Inc. has provided risk services for both internal purposes and to satisfy the needs of Insurers. Typical clients include small and medium sized, integrated E&P companies or other industrial clients.



OUR HISTORY

E2I2 Consulting Inc. was founded in 2005 in response to an industry need for insurance claim support. The company's first client was Suncor Energy Inc, in the successful support of their insurance recovery effort for the US\$1 billion Oil Sands Fractionator fire that occurred at the Fort McMurray, Alberta Upgrader.



E2I2 Consulting Inc. was founded by Lloyd Kortbeek, P.Eng., CIP. Mr. Kortbeek is a mechanical engineer, who by the time he graduated in 1991, had already been involved with a variety of industries including: microprocessor and cellular telephone fabrication, heavy oil processing and upgrading, and ore concentration and smelting.

Mr. Kortbeek gained additional investigation skills, training and experience working front line maintenance and reliability positions with Syncrude Canada Ltd. in Fort McMurray's oil sands. Mr. Kortbeek successfully built the industrial segment within a SAMAC Engineering, a forensic engineering firm known for automobile and general accident investigation, before moving to provide in-house engineering support to Matthews Daniel International in Calgary. While with Matthews Daniel he became a loss adjuster and rose to the position of vice-president.

Mr. Kortbeek has been involved in the investigation of small through very large incidents in the commercial and industrial sectors, ranging from fire investigations and mechanical failures through process upsets and manufacturing errors. His portfolio includes managing files from initial incident through to resolution of the litigation process including directing investigations, assessing values, and negotiating settlements. E2I2 Consulting Inc. is a forensic engineering firm that specializes in Property, Machinery, Boiler and Construction related losses.





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