

LLOYD A. KORTBEEK, P.Eng., CIP

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Mechanical Engineer and Industrial/Energy Claim Support Consultant with over 17 years of experience with industrial equipment, systems and processes. Specializing in insurance and recovery claims involving industrial equipment including the valuation of property claims, improvements and their impacts on repair or project execution timelines. Work experience includes 7 years as field maintenance engineer in Oil Sands processing facility working in the areas of mining, material handling, abrasive fluid transfer, bitumen and diluent handling and over 10 years of claim support including 3 years as a specialized energy loss adjuster.

SUMMARY

- Registered in Alberta as a Professional Mechanical Engineer, and Chartered Insurance Professional
- Conducted, led and participated in investigations into a variety of incidents including well loss of control (Blowout); mobile equipment breakdown; compressor, boiler, and vessel failures; pipeline ruptures; third party or vendor equipment failures; and miscellaneous fires and explosions.
- Investigation activities include cause and origin, mechanical and metallurgical failure investigation and forensic review of facility process data
- Assembled claim documentation to support claims from \$1 Million to excess \$1 Billion
- Evaluated claim file values up to \$250 Million for property and \$1.0 Billion for Business Interruption, including supporting subrogation activities
- Determined repair, replacement and actual cash value of miscellaneous and specialty industrial equipment
- Evaluated useful life for various industrial components including fixed assets such as boilers, exchangers and vessels..

PROFESSIONAL EXPERIENCE

2005 – present **E2I2 Consulting Inc**, President

Provide engineering expertise to insurance and industry for risk assessments, incident investigations and claim assessments. Work within organizations, independently or within a team structure to prepare or evaluate claims documentation, incident recovery timelines and construction costs.

Projects with E2I2 Consulting Inc. include:

- Oil sands plant fire (property excess \$250 Million and claimed BI in excess \$1.2 Billion) – including data management, expert coordination, scope validation and schedule analysis
- Multiple gas battery fire cause and origin investigations
- Heavy Oil Processing facility (property excess \$10 Million and claimed BI of excess \$30 Million) – including data management and coordination of experts and assembly of PD claim support
- Gas Sweetening and Separation Plants facility Risk Assessments – including fire water and incident risk assessments
- Component Rebuild Facility – Risk Assessment facilitation for procedural reviews

1999 – 2005 **Matthews ~Daniel International (Canada) Ltd.**

2003 – present **Vice President – Operations (Calgary Operations)**

Managing office personnel to ensure proper operation of the Calgary office including managing staffing levels, establishing and stewarding budgets, managing information systems, business development and expenses. Adjustment of technically complex files specializing in losses relating to heavy industrial equipment and processes for property, liability (as well as pollution liability), and boiler and machinery claim types. Conduct on-site investigations and provide full service reporting to satisfy the needs of clients.

1999 – 2003 **Lead Engineer/Permit Holder (Engineering Division)**

Direct the engineering division and its resources to effectively respond to the needs of its clients while managing individual projects from initial field response through to litigation support. Client needs include risk assessment, incident investigations, engineering support to understand technical information and interactions between equipment and cost control and review. Manage projects within the engineering group from initial field response to conclusion.

Projects with Matthews ~ Daniel International (Canada) Ltd. include:

- Oil sands plant fire (property excess \$100 Million and claimed BI in excess \$500 Million) – including data management, property evaluation and incident investigation
- Gas liquids extraction plant explosion and fire (approx. \$40 Million) – included participation in investigation team, repair cost assessment and resulting litigation support
- Main reactor cracking for glycol manufacturing facility (claimed property values excess \$16 Million and BI excess \$16 Million) involving cause and origin investigation as well as property and BI claim evaluation
- Construction crane collapse and associated delay in start-up (approx. \$15 Million) – included initial field investigation, property and repair duration evaluation and litigation support
- Pipeline Rupture (approx. \$10 Million) with resultant pollution liability claim – evaluated property and cleanup costs and directed pollution consultant
- Turbine Failure (approx. \$5 Million) – lead role with investigation team and provide support for property damage claim and recovery litigation
- Compressor failure with resulting explosion and fire and interruption of business (approx. \$5 Million) – evaluation of property damage and support of recovery action

Miscellaneous compressor and battery explosions and fires; miscellaneous heavy commercial, light through heavy industrial equipment failures – independent investigator into incident cause and value and scope of damage.

1997 – 1999 **SAMAC Engineering Ltd. - Collision Analyst and Industrial Loss Specialist.**

Responsible for building industrial loss investigation area within company and providing technical investigations into serious injury collisions involving commercial vehicles such as buses, trucks and truck/trailer combinations.

Industrial Projects include:

- Ammonia fertilizer project reformer furnace overheat (>\$10 Million direct loss) – lead investigator and consultant on scope of damage
- Field Compressor Battery compressor failure with explosion and fire – lead investigator and consultant on scope of damage including providing litigation support
- Ammonia fertilizer project control system failure during emergency shutdown (>\$5 Million direct loss) – lead investigator, scope of damage

- 1990 – 1997 **Syncrude Canada Ltd.**
 1994-1997 - **Mechanical Engineer – Mining Division**
 1991-1994 - **Maintenance Engineer – Extraction Division**
 1990-1991 - **Student Maintenance Engineer – Upgrading Division**
 Primary Field Engineer responsible for investigating both re-occurring and single incident failures, accidents and near miss accidents as well as developing repair procedures and designs for equipment modification.
 Responsible for conducting and facilitating field and formal risk assessments

TECHNICAL TRAINING

- 2006 - **H2S Alive**, Petroleum Industry Training Service, Calgary
 2005 - **Claims Management: Torts** – University of Calgary Continuing Education, Calgary
 2004 - **Claims 2** – Insurance Institute of Canada, Calgary
 - **Bodily Injury Claims** – Insurance Institute of Canada, Calgary
 - **The Business of Insurance** – Insurance Institute of Canada, Calgary
 - **Fraud Awareness and Prevention** – insurance Institute of Canada, Calgary
 2003 - **Automobile Insurance – Part 1**, Insurance Institute of Canada, Calgary
 - **Claims 1** - Insurance Institute of Canada, Calgary
 - **Insurance Against Liability**, Insurance Institute of Canada, Calgary
 - **Insurance Against Crime**, Insurance Institute of Canada, Calgary
 - **Specialty Lines**, Insurance Institute of Canada, Calgary
 2002 - **Project Management for Professionals in the Oil and Gas Industry**, University of Calgary, Calgary
 - **Dynamic Analysis of Compressor Systems**, University of Calgary, Calgary
 - **Principles and Practice of Insurance**, Insurance Institute of Canada, Calgary
 - **Insurance on Property – Part 1**, Insurance Institute of Canada, Calgary
 - **Introduction to Personal Lines**, Insurance Institute of Canada, Calgary
 2000 - **Offshore Survival Training**, Survival Systems Training Limited, Halifax, Nova Scotia
 - **Workplace Hazardous Materials Identification System Basic Training**, Survival Systems Training Limited, Halifax, Nova Scotia
 1996 - **Mechanics of Heavy Duty and Truck Combinations**; University of Michigan, Ann Arbor
 1996 - **Industrial Air Compressors**; Syncrude, Fort McMurray
 1995 - **Keper Tregoe Rational Processes**; Syncrude, Fort McMurray
 1994 - **Welding Metallurgy, Masters Level course**; University of Alberta
 - **Synthetic Lubricants**, Society of Tribology and Lubrication Engineers (STLE); Calgary
 1993 - **Introduction to the Design and Behavior of Bolted Joints**; Raymond Engineering Ltd. (John Bickford), Ft. McMurray

EDUCATION

- 1991 B.Sc. (Mechanical Engineering), Cooperative Program; University of Alberta
 2004 CIP (Chartered Insurance Professional), Insurance Institute of Canada

PROFESSIONAL ASSOCIATIONS & MEMBERSHIPS

- Association of Professional Engineers, Geologists and Geophysicists of Alberta
- Insurance Institute of Canada
- Insurance Institute of Southern Alberta

PRESENTATIONS

- Practical Claims Management – Western Canadian Construction Conference (September 12, 13, and 14 2006)