



**MACHINERY AND EQUIPMENT
SPECIALISTS**

PROJECT BOOK

industrialloss.com

THE ILC PROMISE

Time is crucial in every insurance claim, and Industrial Loss Consultants understand the importance of being at the loss location immediately. That kind of response is essential for identifying solutions that enable businesses to resume operations quickly.

IMMEDIATE RESPONSE

GUARANTEE:

ILC is on-call and ready to respond to most projects within 24 – 48 hours or whenever is most convenient for everyone involved.

CONSISTENT AND TIMELY

REPORTING:

ILC understands the importance of consistency and timeliness which is why we strive to communicate and deliver on deadlines regarding all types of reports for every project we do.

DIVERSE MACHINERY

EXPERIENCE:

Backed by vast and diverse experience with machinery and equipment, our consultants and experts have worked across a wide range of industries and are equipped to handle even the most complex technical challenges.

CLIENT-FOCUSED

SOLUTIONS:

We are committed to building long-term partnerships with every client we do business with. Our focus is to understand your needs and interests with the goal of delivering strategic solutions.

ACCURATE IN ALL

REPORTING:

Accuracy in communication, scope, and reporting are all important parts of how we work with clients. Our knowledge of the industry to rebuild equipment adds to the accuracy of the ILC results.

OBJECTIVITY AND

FACTS:

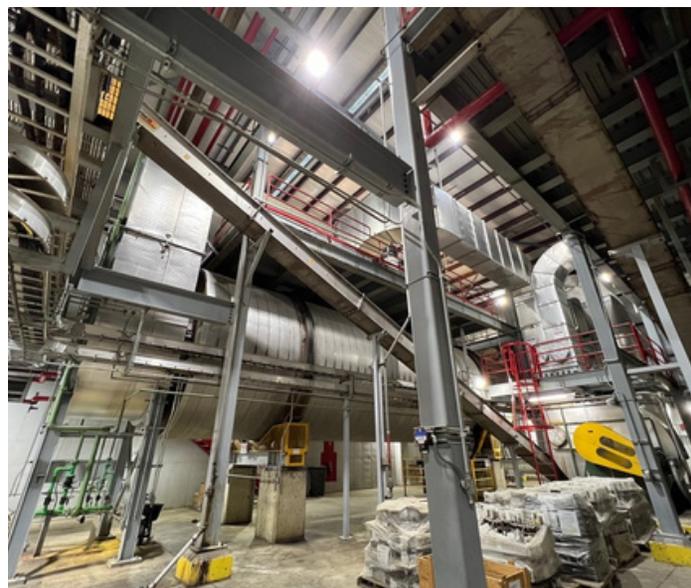
During our analysis of a claim, ILC will only present the facts. Whether the news is good or bad, objectivity is at the core of quality consulting.



PROJECT MANAGEMENT

CLAIM REDUCTION OVER \$9M

ETHANOL & ETHANOL CO-PRODUCTS PLANT



ETHANOL & ETHANOL CO-PRODUCTS PLANT

TYPE OF LOSS: EXPLOSION

EQUIPMENT IMPACTED:

- Rotary Dryers
- Thermal Oxidizer
- Conveyance Systems
- Cyclones
- Gas Trains
- Instrumentation
- Electrical Distribution

SITUATION:

A major explosion occurred at an ethanol plant severely damaging specialty ethanol co-products processing equipment. As a result, the client faced loss of revenue for its co-products.



RESULTS:

- **Reduced Costs:** \$16.13M restoration cost vs. \$25.5M RCV initial loss estimate.
- **Smart Asset Decisions:** Strategic repair/restoration decisions expedited restoration timeline.
- **Client Confidence:** Reinforced ILC's role as a trusted partner in high-stakes ethanol plant losses.

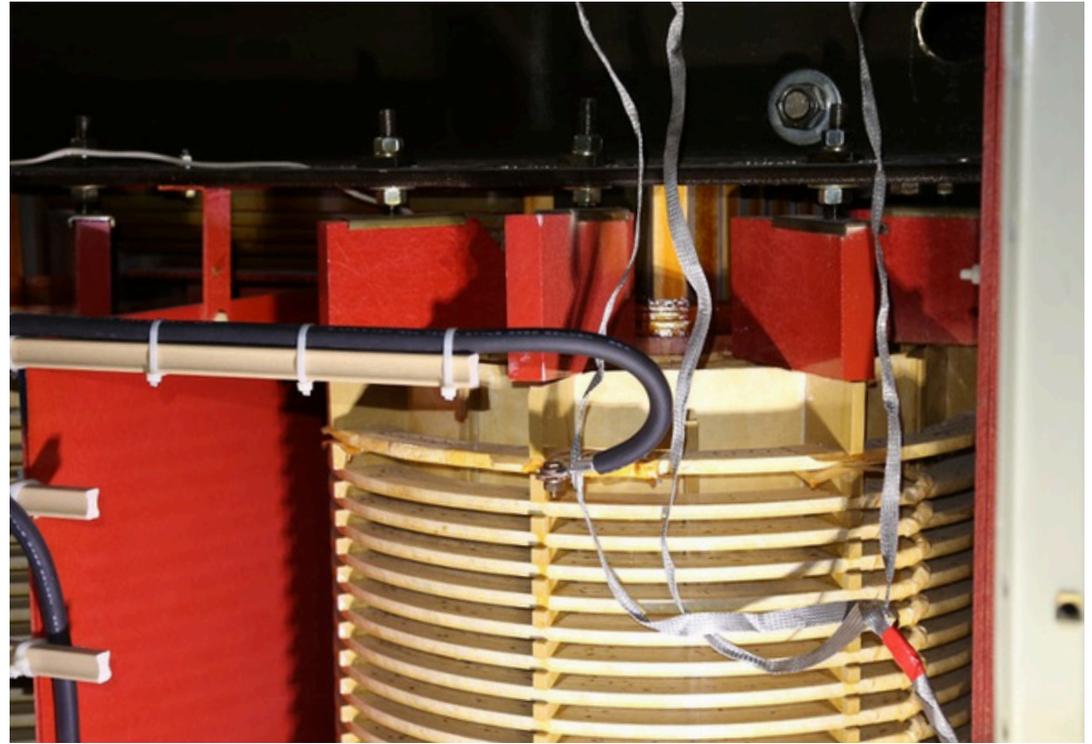
VALUE-DRIVEN SOLUTIONS:

Took Immediate Control of the Restoration Process:

Initiated daily coordination meetings with restoration firms, the insured, and the client to remove obstacles, streamline equipment assessments, and accelerate repair vs. replacement decisions.

Ongoing Cost and Contract Oversight: Conducted detailed reviews of contracts, costing proposals, and invoices—identifying multiple errors and non-loss-related charges to ensure accurate and justified expenditures.

Equipment Restoration Oversight: Closely monitored schedule adherence, proactively addressing delays by quickly identifying and removing barriers, which improved project timelines.



BI-MITIGATION

PREVENTED \$500K IN NON-LOSS-RELATED ISSUES FROM CLAIM

LARGE HOTEL

LARGE HOTEL

TYPE OF LOSS: ELECTRICAL SERVICE EQUIPMENT FAILURE

EQUIPMENT IMPACTED:

- Main Power Distribution Centers
- Hot Water Circulation Pump Motor
- Building Chiller System
- Magnetically Levitated Turbocompressors

SITUATION:

A 1,500+ room hotel and convention center experienced a power outage when a 13,800-volt wire feeding one of its transformers failed due to lack of maintenance.

VALUE-DRIVEN SOLUTIONS:

Technical Expertise: Conducted in-depth research using service & installation manuals for turbocompressors to support accurate failure analysis.

Adaptive Focus: Shifted seamlessly from electrical system loss to a detailed evaluation of HVAC equipment claims.

Claim Reconciliation: Aligned technical findings with the insured's claims to accurately determine causes of HVAC system failures.

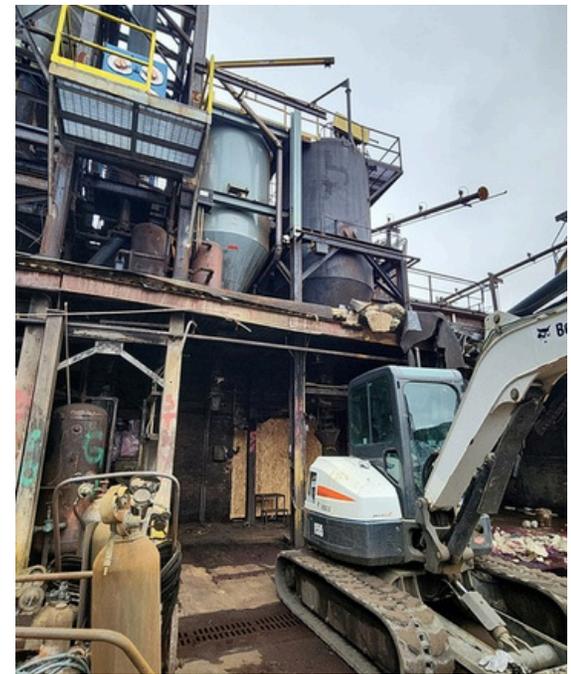
RESULTS:

- **Technical Translation:** ILC clarified the wire insulation failure to support a fair and accurate claim adjustment.
- **Smart Asset Decisions:** The insured gained a better understanding of the importance of routine maintenance for switchgear systems.
- **Accurate Claim Coverage:** ILC prevented \$500k in unrelated & pre-existing issues from being included in the claimed loss.
- **Onsite Evaluation:** ILC evaluated the failure and directly observed the cleaning & maintenance of four additional unitized power centers during a planned power shutdown.
- **Detailed Investigation:** When the insured later claimed HVAC-related losses, ILC conducted a thorough investigation & demonstrated that the issues were unrelated to the original power failure claim.

Rapid Response: Mobilized immediately with two site visits during the first week to assess damage and monitor repairs.

Clear Communication: Translated complex electrical engineering concepts into understandable terms for all stakeholders.

Data Organization: Analyzed years of invoices & technician reports to establish a clear and comprehensive view of equipment condition.



SUBROGATION / TECHNICAL CLERKING / INVENTORY ANALYSIS

REDUCED LEAD TIME AND COST REDUCTION BY OVER \$15M

CHEMICAL PROCESSING FACILITY



CHEMICAL PROCESSING FACILITY

TYPE OF LOSS: FIRE, HEAT, SOOT, WATER, AND PRODUCT CONTAMINATION

EQUIPMENT IMPACTED:

- Chemical Processing Machinery
- Packaging Equipment
- High-temperature Components
- Bearings
- Controls
- Shafts

SITUATION:

A major fire disrupted a critical chemical processing facility—destroying two buildings and damaging proprietary equipment. The client faced severe business interruption risk as one of only three global suppliers of materials essential to municipal water systems and other critical industries, including healthcare.

RESULTS:

- **Saved Time:** Rapid recovery prevented extended shutdown.
- **Reduced Costs:** \$9.3M restoration cost vs. \$24.6M–\$31M RCV loss estimate.
- **Smart Asset Decisions:** Strategic repair/restoration preserved essential machinery.
- **Client Confidence:** Reinforced ILC's role as a trusted partner in complex, high-stakes losses.

VALUE-DRIVEN SOLUTIONS:

Immediately mobilized: Delivered rapid assessments and a recovery strategy focused on minimizing downtime and financial exposure.

Accelerated Production: Negotiated priority manufacturing with the OEM, cutting nickel pump casting lead time from 6-9 months to 2-3 weeks.

Fast-Tracked Repairs: Initiated large motor evaluations and rebuilds within days.

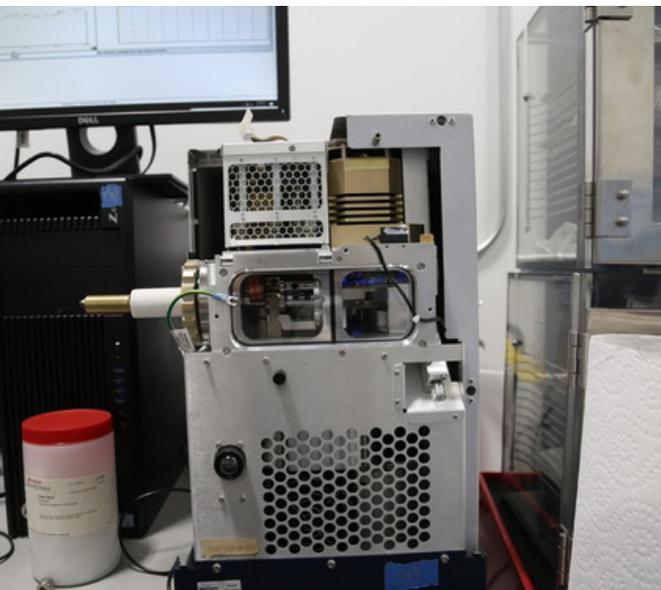
Innovation Over Obsolescence: Sourced alternatives for discontinued components.

Business Continuity: Enabled temporary operations and expedited critical-path repairs to limit interruption.

EXPERT ANALYSIS / SOLUTION PROVIDER / TECHNICAL CLERKING

TOTAL ESTIMATED REDUCED COSTS MORE THAN \$3.5M

CONTRACT MANUFACTURER OF LIFE SCIENCE EQUIPMENT



CONTRACT MANUFACTURER OF LIFE SCIENCE EQUIPMENT

TYPE OF LOSS: FIRE, HEAT, SOOT, WATER, AND PRODUCT CONTAMINATION

EQUIPMENT IMPACTED:

- Mass Spectrometers
- Residual Gas Analyzers
- Vacuum Test Chambers
- Parts Inventory Consisting of Various High-performance Materials

SITUATION:

A fire disrupted operations at a critical engineering firm, threatening the loss of numerous proprietary components essential to the production of scientific laboratory equipment. As a global supplier, business interruption posed a major risk.

RESULTS:

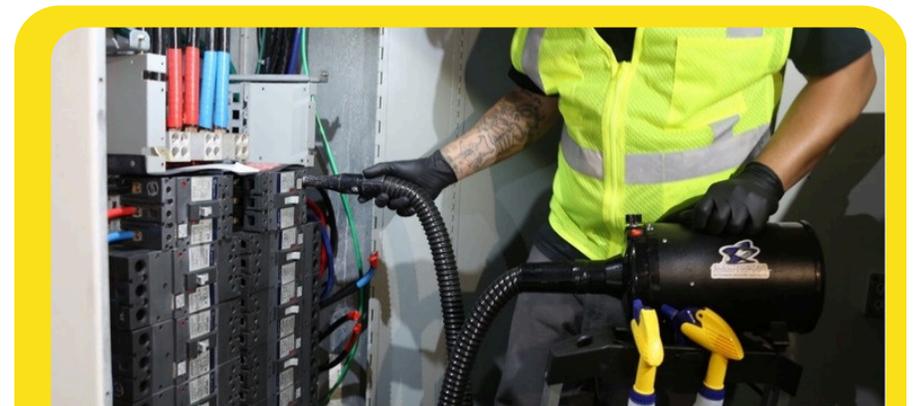
- **Repair vs. Replace:** ILC's solution to repair vs. replace the equipment resulted in a cost reduction of \$2 million.
- **Time Savings:** Repaired equipment was repurposed for new product development, allowing the lead scientist to resume operations and meet critical contract deadlines.
- **Contractor Coordination:** ILC streamlined previously disorganized repair efforts through expert technical clerking, enhancing efficiency and saving approximately \$970,000.
- **Inventory Recovery:** Cleaning and recertifying high-value inventory avoided \$600,000 in replacement costs.
- **Total estimated reduced costs more than \$3.5M.**

VALUE-DRIVEN SOLUTIONS:

Immediate Mobilization: Rapid deployment to assess damage and develop a recovery strategy that minimizes downtime and financial impact.

ILC Expertise: Deep technical insight enables us to uncover recovery solutions that prevent total loss and preserve asset value.

Technical Clerking: Expert coordination across all restoration activities delivers significant cost savings and ensures project efficiency.





PROJECT MANAGEMENT / BETTERMENTS REDUCTION

IDENTIFIED \$4.5M IN BETTERMENTS

LIVESTOCK RENDERING PLANT



LIVESTOCK RENDERING PLANT

TYPE OF LOSS: FIRE

EQUIPMENT IMPACTED:

- Product Grinders
- Rotary Screens
- Product Pressers
- Centrifuges
- Water Treatment Equipment
- Elevated Conveyance Systems
- Process Material & Finished Goods Storage Tanks
- Crax Bin
- Thermal Oxidizer
- Boilers
- Process Condenser
- Material Pumping Systems
- MCC Equipment
- Environmental Control Equipment – Air Scrubbers

SITUATION:

A major fire at a rendering plant caused severe damage to specialized processing equipment, resulting in an immediate facility shutdown. Restoration efforts were delayed due to complex environmental concerns and permitting challenges.

RESULTS:

- **Reduced Costs:** The insured initially submitted \$21.83M in equipment damage. ILC validated and approved \$17.33M, identifying and removing \$4.5M in betterments from the claim.
- **Client Confidence:** Demonstrated ILC's value as a trusted partner in resolving complex, high-stakes machinery losses.

VALUE-DRIVEN SOLUTIONS:

Weekly Focus Meetings: Participated in ongoing restoration meetings with client, the insured, and equipment manufacturers for nearly two years to keep the claim progressing efficiently.

Damage & Cost Scope Reviews: Collaborated with the insured and fabrication partners to define and agree on repair, replacement, and betterment scopes—reviewing extensive equipment designs and process flow diagrams.

EPA Documentation Analysis: Assessed EPA and manufacturer documentation to verify code-driven upgrades, uncovering discrepancies that led to significant cost savings.





INVENTORY ANALYSIS / TECHNICAL CLERKING

REPAIR VS. REPLACE REDUCED CLAIM BY NEARLY \$6M

ETHANOL AND ETHANOL CO-PRODUCTS PLANT

ETHANOL AND ETHANOL CO-PRODUCTS PLANT

TYPE OF LOSS: EXPLOSION

EQUIPMENT IMPACTED:

- Regenerative Thermal Oxidizer
- Conveyance Motors & Gearboxes
- MCC Equipment
- Equipment Servers & Controls
- HVAC System (process & building)
- Air Compressors & Dryers
- Coriolis Meters
- Yeast Cooling Unit
- Corn Oil Separation Equipment
- Lab Equipment
- Instrumentation

SITUATION:

A major explosion occurred at an ethanol plant severely damaging specialty ethanol co-products processing equipment. As a result, the client faced loss of revenue for its co-products.

RESULTS:

- **Reduced Costs:** \$6.2M restoration costs vs. up to \$12.5M RCV initial loss estimate.
- **Smart Asset Decisions:** Strategic repair/restoration decisions expedited restoration timeline.
- **Client Confidence:** Reinforced ILC's role as a trusted partner in high-stakes ethanol plant losses.

VALUE-DRIVEN SOLUTIONS:

Evaluated Restoration Scope: Assessed numerous pieces of specialized, custom machinery and equipment for restoration viability.

Repair vs. Replace Strategy: Collaborated with contractors to develop a clear and effective plan for repair versus replacement.

Scope Matrix Development: Worked with client to create a scope matrix document that became the standard for future ethanol plant restorations.

Costing Oversight: Conducted thorough and ongoing restoration cost reviews throughout the duration of the loss.

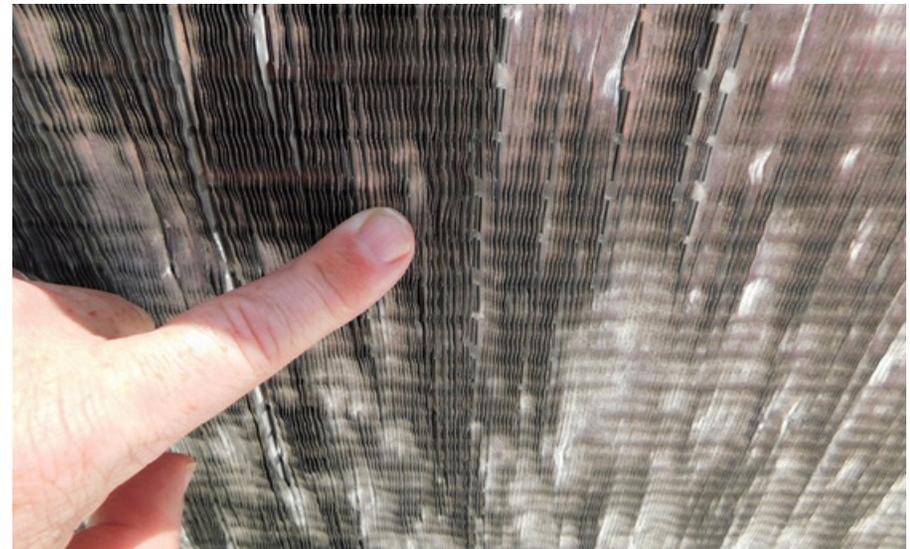




EXPERT ANALYSIS / SOLUTION BASED RESULTS

\$11,000 REPAIR INSTEAD OF A \$800,000 REPLACEMENT

TWO-STORY MANUFACTURING FACILITY



TWO-STORY MANUFACTURING FACILITY

TYPE OF LOSS: ADVERSE WEATHER / MULTIPLE HAILSTORMS

EQUIPMENT IMPACTED:

- 36 HVAC Air Handling Units (5 brands of equipment)

SITUATION:

Two, possibly three hailstorms caused moderate to severe impact damage to 32 roof-mounted HVAC units at a two-story manufacturing facility. ILC was engaged to assess the damage and determine repair feasibility and associated costs.

RESULTS:

- **Repair vs. Replace:** Repair deemed appropriate.
- **Total Repair Cost:** \$11,554.
- **Time Savings:** Repairs completed quickly, avoiding lengthy equipment lead times and installation delays.
- **Operational Benefit:** Full-capacity AC service restored promptly during peak summer heat.
- **Estimated Cost Reduction:** \$800,000 in avoided replacement and installation costs.

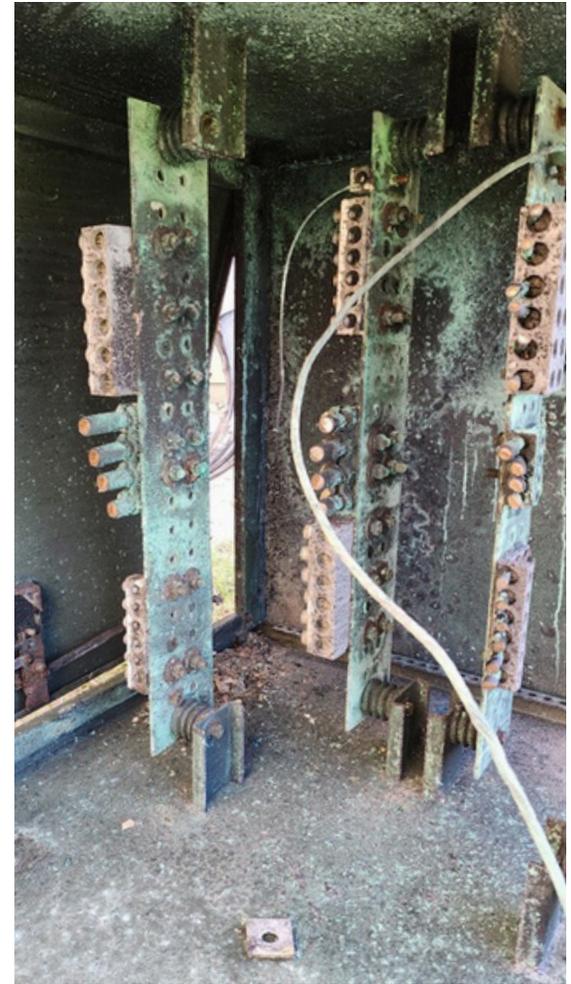
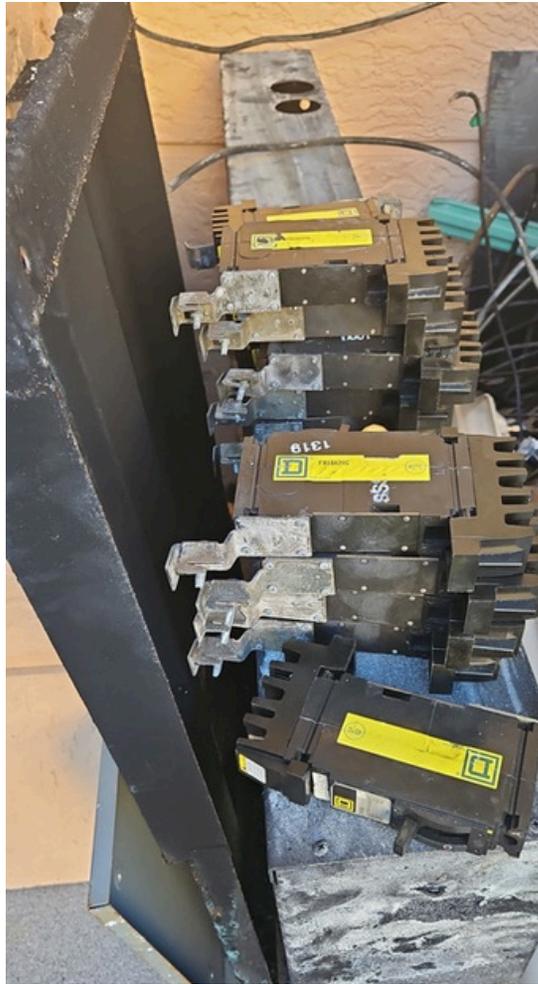
VALUE-DRIVEN SOLUTIONS:

Rapid Response: ILC mobilized quickly and completed professional services in a single day, providing a fast assessment and recovery strategy to minimize AC downtime and financial exposure.

Effective Damage Assessment: Accurate evaluations and repair recommendations delivered significant cost savings.

Trusted Partner: Solidified ILC's reputation in managing complex, high-stakes machinery losses.





EXPERT ANALYSIS & COST EVALUATION

OVER \$1 MILLION IN EQUIPMENT EVALUATED FOR REPAIR OR REPLACEMENT

CONDO ASSOCIATION BUILDING

CONDO ASSOCIATION BUILDING

TYPE OF LOSS: EXPLOSION

EQUIPMENT IMPACTED:

- Electrical Panels
- Transformers
- Switchgear/Switchboard
- Elevators
- Lighting
- HVAC Systems
- Pool Equipment

SITUATION:

An arc flash in a condominium electrical room, caused by degraded power conductors, led to fire and sprinkler activation. Electrical equipment and two elevators were damaged by heat, water, explosion force, & smoke.



RESULTS:

ILC evaluated over \$1M in equipment damage, which was due to power surge, mechanical explosion force, fire, water and heat. Everything in the electrical room was a total loss and had to be repaired or replaced.

VALUE-DRIVEN SOLUTIONS:

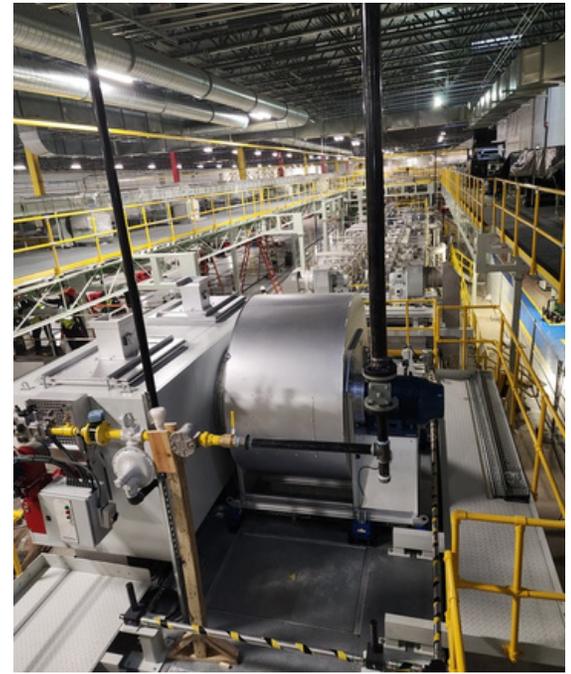
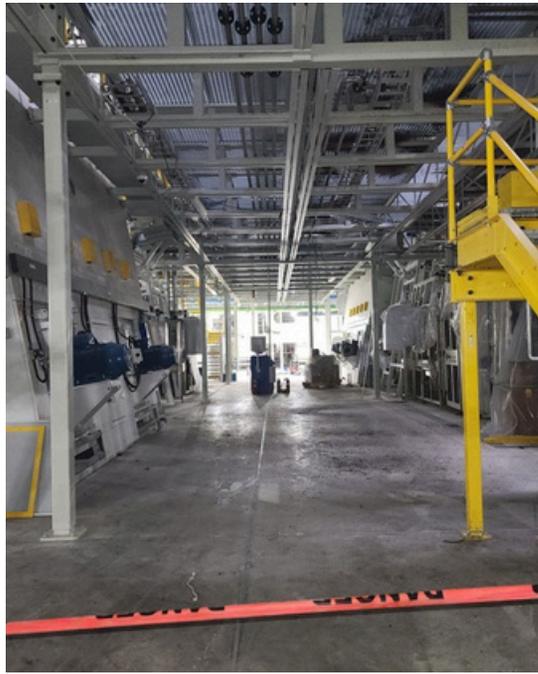
Temporary Power Solutions: Rental generators were brought in to support elevator inspections, temporary repairs, and air conditioning.

Severe Electrical Damage: The building could not be re-energized due to extensive damage to all electrical feeds and control panels.

OEM Assessment: The original OEM confirmed that the switchboard & switchgear were repairable and did not require replacement.

Damage Categorization: The cause of damage was evaluated and categorized as power surge, fire, mechanical explosion force, and water.

Cost Allocation Challenges: Vendors had to provide itemized, detailed cost breakdowns by location & damage type. Generic descriptions were rejected.



MECHANICAL & ELECTRICAL EXPERT ANALYSIS / TECHNICAL CLERKING

RESULT IN REDUCED CLAIMS COST OF NEARLY \$3M

ALUMINUM BEVERAGE CAN MANUFACTURING



ALUMINUM BEVERAGE CAN MANUFACTURING

TYPE OF LOSS: FIRE, SMOKE AND WATER DAMAGE

EQUIPMENT IMPACTED:

- Specialized Conveyance System
- MCC Equipment
- Beverage Can Decoration Machinery
- Operator Control Centers
- Can Cleaning & Drying Systems

SITUATION:

A massive fire broke out at an aluminum can manufacturing plant during the early stages of its production setup. The resulting damage caused by the fire delayed the plant's startup, resulting in potential lost revenues for the insured.

RESULTS:

- **Reduced Costs:** \$2.45M restoration cost vs. \$4.82M RCV initial loss estimate.
- **Manpower and Equipment Tracking:** By clerking the cleaning process and delivering daily reports, ILC identified \$600,000 in duplicate invoices within the \$6.9M submitted, leading to significant cost recovery for the client.

VALUE-DRIVEN SOLUTIONS:

Immediate Restoration: Initiated daily meetings with restoration firms, the insured, and client to resolve equipment issues and expedite repair vs. replace decisions.

Repair/Replace Planning: Collaborated with contractors to develop a strategic plan for technical cleaning, repair, or replacement.

Restoration Oversight: Monitored work by multiple entities—including the OEM, Belfor, Bamcor, and RTI—to ensure quality and progress.

Cost Review & Controls: Conducted detailed reviews of contracts, proposals, and invoices—identifying errors, betterments, and non-loss items.

Compliance Validation: Verified EPA and manufacturer documentation to eliminate unnecessary upgrade costs tied to misrepresented code requirements.

Schedule Management: Closely tracked timelines and removed barriers to minimize delays.

OUR SERVICES

We will assess, recommend, and then oversee the implementation of restoring simple and complex claims related to machinery and equipment.



**Technical
Consultation /
BI Mitigation**



**Project
Management /
Technical Clerking**



Cause of Loss



Desk Services



**Appraisal
Services**



**Catastrophe
Response**



Expert Witness



Salvage Options

AREAS OF EXPERTISE



BUILDINGS



HEAVY MACHINERY



MANUFACTURING



PRINTING & PACKAGING



HEALTHCARE



ELECTRICAL CONTROL SYSTEMS



FOOD/RESTAURANT



ENERGY/POWER DISTRIBUTION



AGRICULTURE EQUIPMENT



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