



Machinery breakdown

Improving maintenance, reducing risk

Zurich Resilience Solutions (ZRS) Risk Engineering's Machinery Breakdown team focuses on customers to reduce the frequency and the severity of losses related to machinery breakdown through a proactive analysis of current operating practices.

Machinery Breakdown offerings provide customers with a suite of tools to help customers manage their equipment risks and Site assessments. Other services help customers analyze and evaluate in the following areas:



Physical plant
processes
and services



Objects critical
to operation



Preventive/
predictive
maintenance



Business continuity
planning



Plant interdependency
studies

Jurisdictional equipment assessment

Our risk engineers perform inspections required to maintain jurisdictionally mandated boiler and pressure vessel certification. Our quality control program is certified through the National Board of Boiler Pressure Vessel Inspectors.

- Jurisdictional/MSHA-required inspections and certification of boilers/pressure vessels
- Upon request, a detailed status report of the customer's boiler and pressure vessels

Additional service capabilities include:

- Fuel-fired Equipment (FFE) Assessments
- Equipment testing services
- Oil sampling for transformers
- Infrared testing
- Vibration testing and analysis

Special services

- Refrigeration/ammonia contamination surveys
- Electrical system surveys, including surge-protection systems
- Used plant equipment condition assessments
- Boiler/equipment review of installation plans prior to construction
- Investigation of equipment failure to determine root cause
- Customized training for operation and care of boilers and machinery at the local plant or corporate level

For more information, contact:

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