



**Global Risk  
Consultants®**

## Boiler and Machinery Engineering

Dedication in providing services to  
address today's challenges

In many industries, Boiler and Machinery (B&M) Engineering is a critical component of any Risk Management strategy. In fact, the exposures from boiler and machinery equipment failure and resulting consequential losses may exceed those normally associated with catastrophic fire events.

Prevention requires a detailed knowledge of the equipment, associated failure modes and best practices to avoid and mitigate these losses. This, in turn, requires that your B&M Engineering consultants have a high level of experience working in your industry sector and be at the forefront of new technologies and techniques for condition based assessment and preventative maintenance.

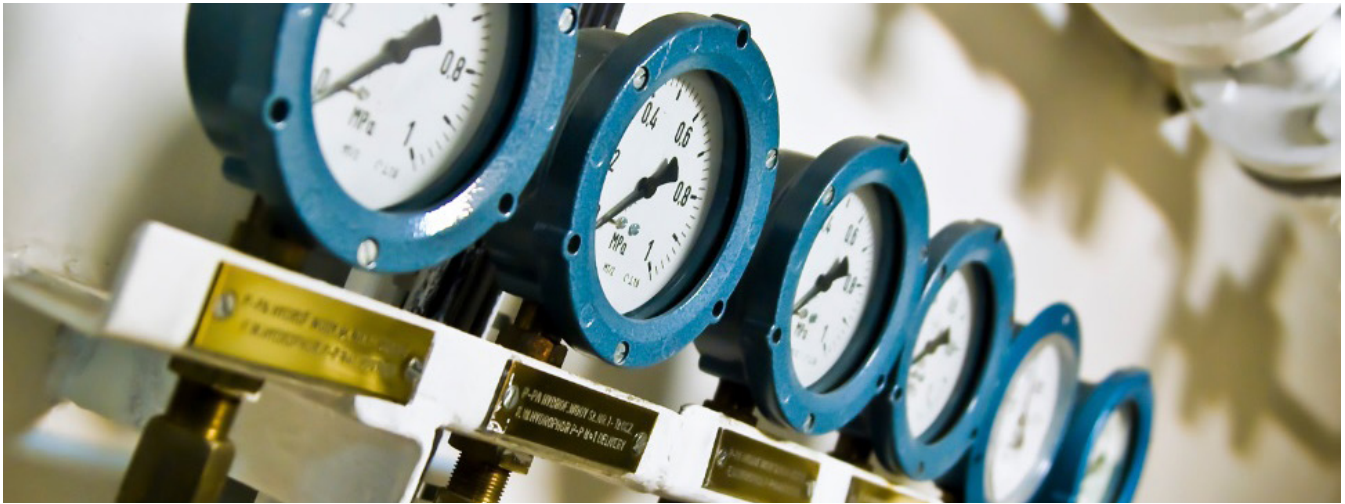
TÜV SÜD GRC's B&M Engineering team includes experienced and licensed mechanical and electrical engineering professionals located worldwide to provide a cost effective service to our clients. Our team can help look beyond compliance with local statutory/jurisdictional

requirements, apply world class knowledge – which helps our clients to promote the best reliability programs - and provide added value services.

**B&M engineering surveys address both dimensions of the risk profile:**

### **Likelihood & Severity**

The likelihood of failure is largely influenced by ensuring that electrical and mechanical reliability programs are being taken as far as economically justified. The severity dimension is often controlled by confirming protection features are adequate and that operational factors including routine testing are aligned with best practices to ensure that, should a loss occur, it does not escalate. Post-loss consequential impact is also mitigated by ensuring that critical spare parts inventories are adequate and that these spare parts will be available when called upon. It also addresses the effectiveness of contingency planning for critical loss scenarios if spare parts are not available.



### Why TÜV SÜD GRC B&M Engineering Surveys?

TÜV SÜD GRC Reporting is universally accepted both by industry and underwriting clients. Our reports carry a concise summary of machinery hazards inherent to any given production process and a summary of the associated risks (good, bad or indifferent). This also extends to all vital utility services. We provide credible B&M loss potential estimates for insurance underwriting purposes based on accepted definitions.

The Loss Prevention section of our report provides meaningful recommendations to reduce the likelihood or severity of loss events. Recommendations are based on the TÜV SÜD GRC internal Loss Control Guidelines, acceptable international standards where applicable, and best practice from industry today. For key client sectors, our internal Industry Focus Groups facilitate an awareness of the latest developments in industry technology and loss control efforts.

### Industry Experience

- Chemical & Petrochemical
- Power Generation
- Industrial Processes
- Primary Metals
- Mining and Ore Processing
- Pulp & Paper

### About TÜV SÜD

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in assessment, testing, inspection, auditing, certification, training and knowledge services. Represented in over 1,000 locations worldwide,

we hold accreditations in Europe, the Americas, the Middle East, Africa and Asia. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

### Related services

- Fire Protection Engineering
- Infrared Thermographic Surveys
- Natural Hazards Analysis
- Jurisdictional Boiler & Pressure Vessel Inspections
- Customized Training Services
- Property Valuation
- Arc Flash Assessments
- Business Continuity Planning
- Process Safety
- Dust Hazard Analysis (DHA)
- Code and Project Services