



TOUGH PROBLEMS PRACTICAL SOLUTIONS



World Class Capability

SVT is a specialist engineering consultancy with world-class capabilities in noise, vibration and corrosion.

Safety, Reliability & Integrity

Our clients call on us when they need to improve the safety, reliability and integrity of their critical assets.

SVT's focus is on improving the operational capability of:

- operating plant
- rotating and reciprocating equipment
- pressure vessels and piping systems
- fixed and mobile structures

First Principles & Field Experience

SVT combines first principles understanding with a wealth of field experience.

We have worked on projects as diverse as: the NASA space program; oil and gas production; minerals extraction, processing and refining; power generation; and commercial shipping.

We have the skills and experience to deliver practical solutions that address operational and business needs.

Practical Solutions

We help our clients manage the risks, causes and effects of noise, vibration and corrosion. We provide practical advice on the application of regulations, standards and best practices:

- Environmental and occupational regulations
- API, ASME, ISO and other design standards
- Fitness for services regulations, standards and practices
- Condition monitoring and reliability practices
- Asset integrity and risk based inspection practices

Design to Asset Management

Our case studies show how we make a difference. We have the experience to support our clients throughout the project life cycle, including:

- Environmental impact modelling and assessments
- FEED and design support
- Commissioning support
- Condition based asset support for static and rotating equipment
- Training and development
- Troubleshooting

Making A Difference

We have a team of very bright and experienced engineers that are passionate about the work we do.

Our goal is to provide our clients with clear and timely advice that can be trusted and acted upon.

The successful, long term relationships we have with our clients are testimony to the difference that we make.

ROTATING EQUIPMENT

NOISE

CORROSION

PRESSURE EQUIPMENT

STATIC EQUIPMENT

VIBRATION

VIBRATION

CORROSION

NOISE

STATIC EQUIPMENT

Our Services

Integrity Engineering

- Pressure equipment design, verification and inspection
- Failure analysis, fitness for service and fatigue life assessments
- Dynamic design analysis for structures, piping and vessels
- Torsional, pulsation, flow and acoustic induced vibration studies
- Vibration screening and assessment of small bore fittings and piping
- Measurement and troubleshooting of in-service vibration issues
- Dynamic modelling using FEA and CFD techniques

Corrosion & Materials

- Fitness for service assessment
- Materials selection
- Materials failure analysis
- Wear and erosion studies
- Cathodic protection design and maintenance
- Inspection, surveys and integrity assessment
- Corrosion modelling, risk assessment and strategy development (RBI)
- Storage tank corrosion assessment and design verification

Noise Management

- Occupational noise management
- Environmental impact assessment
- Noise mitigation and control (ALARP)
- Human vibration
- Underwater acoustics
- Facility design

Rotating Equipment Reliability

- Predictive maintenance programs and condition monitoring
- Maintenance strategies and optimisation (RCM, FMECA, CMMS)
- Reliability improvement programs
- Proactive maintenance improvement such as alignment, boroscoping & balancing
- Rotor-dynamic analysis and performance modelling and testing
- Root cause failure analysis
- Troubleshooting

Training

- Internationally accepted certified training
- Awareness training
- Customised training



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