

Vibration Condition Monitoring (VCM)

www.vipac.com.au

Without Vibration Condition Monitoring, machine faults can go unnoticed. Don't miss the early warning signs that lead to unscheduled outages and a subsequent loss of revenue.

Visual inspections are not sufficient in detecting critical equipment damage and machine faults. Through NATA-accredited Vibration Condition Monitoring, Vipac can help identify a drop in performance and any machine problems from an early stage. This will give you ample time to schedule maintenance or repair, minimising costly downtime.

What are the Benefits of VCM?

- Extend machine life
- Prevent catastrophic failure and emergency shutdowns
- Reduce your liabilities to damage claims
- Reduce production downtime and loss of revenue
- Minimise maintenance costs by avoiding unnecessary periodic maintenance
- Achieve energy savings through reduced power consumption
- Lower the risk of component damage
- Conform to the environmental controls of State regulations, i.e. EPA
- Ensure safe operating and working conditions
- Monitor impact to residences, businesses and heritage buildings

What Problems can VCM Detect and Prevent?

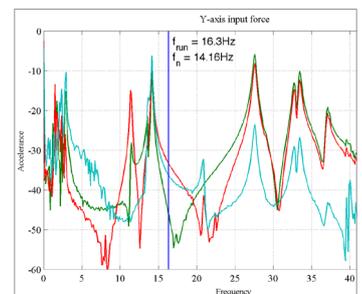
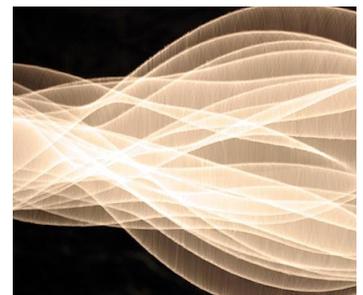
- Imbalance in fans
- Misalignment of the motor/gearbox in a lift drive
- Looseness of a chilled water pump impeller
- Electrical faults in squirrel cage motors
- Worn roller bearings
- Gear wear in a gearbox, e.g. lift motor, mill drive, crushers.

From bearing condition surveys on switchboards, to advanced diagnosis of machine faults on chiller plant rooms, our monitoring can be tailored to your requirements, ranging from peripheral support to full out-sourcing.

What Other Services do we Offer?

- Infrared Thermographic Surveys
- Motor Circuit Analysis
- Laser Alignment
- Non Destructive Testing
- Impact Test / Bump Testing / Natural Frequency Testing
- Thermography
- Pipe Wall Thickness Testing / Ultrasonic Thickness Measurement
- Dynamic balance on site.

Detecting just one defect can pay for the costs of the routine monitoring many times over.





www.vipac.com.au

Unexpected machine downtime can cripple revenue, halt production, create wanton equipment damage and inflate maintenance costs.

Hear it from our clients

Vibration has been one of our core competencies since 1973, with the “Vi” in “Vipac” referring to Vibration. We have worked on office towers, hotels, hospitals, universities, shopping malls and production plants.

“I’ve known Vipac staff since the opening of Crown Casino when I was Engineering Manager, and Vipac has been my Vibration Condition Monitoring “company of choice” since then for over 15 years at Crown Casino, Multiplex, University of Melbourne with excellent results. Vipac provides us with a real sense of trust and security and knowing how reliable they are and how good their work is, I could write quite a lot more.”

The University of Melbourne

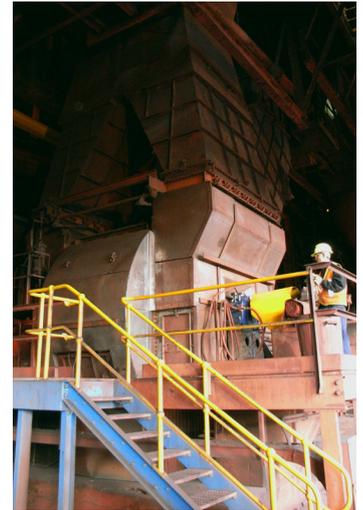
Success Story

Challenge: Vipac was commissioned to help OneSteel when they were experiencing inconsistent behaviour from the 670 kilowatt fan motor at its manufacturing facility.

Solution: In just a few hours, we rectified the problem and reduced the vibration levels from 12mm to less than 1mm per second.

“Vipac utilised state-of-the-art equipment that we could neither afford to buy nor keep for one-off issues. This testing is considered outside the normal skill set of many in-house vibration teams, which is why Vipac was called to the scene.”

OneSteel Whyalla Steelworks



OneSteel Whyalla Steelworks

There's more pressure than ever before for companies to run continuously. That's why Vibration Condition Monitoring is considered the best form of predictive maintenance.