

ull JPS Reliability

A Reliable Plant is a Profitable Plant

PROfessional services for PROactive maintenance





INTRODUCTION

Do you have?

- Unpredicted faults
- Inadequate Reliability
- Repeat failures
- Unexplained Machine Issues

Leading to

- Emergency breakdown maintenance
- High maintenance cost
- Poor use of available labour
- Loss of production or increased cost per hour

JPS provide

- Improved functionability and efficiency
- Address repeat failures
- Improved maintenance practice
- Maintenance planning







In general, Condition Monitoring is periodic or continuous measurements of conditional parameters (Predictor and/or Indicator), collected during normal operation that determines the physical state of an item or system without disturbance.

The objective of the Condition Monitoring technique(s) is to provide information with respect to the actual condition of the system and any change in that condition, based on known data. (This could be manufacturer's specification or recorded monitoring data).

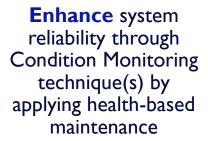
This information is used to schedule Conditional Maintenance tasks on an as needed basis (instead of relying on predetermined intervals).

The selection of the Condition Monitoring technique(s) depends on the criticality, failure mechanisms, type of equipment used and, importantly on economic and safety consequences.



WHAT WE DO







Improve machine and system functionability - keep production running for longer



Determine failure mechanisms of the system - then derive their associated Relevant Condition Predictor(s)



Apply Condition
Monitoring strategies
and technologies that
will indicate the
condition and
performance of the
system(s)



Drive the maintenance task and planned interval(s). Review performance.



HOW WE CAN HELP YOU



When a client requires support with or development of Health Based Maintenance we work in partnership.

Upskill your internal workforce in

- Ultrasound Airborne and Structural Borne
- Infrared Thermography-Low Voltage, Mechanical and Process
- Vibration Analysis
- General Maintenance Practices
- Practical Reliability Engineering

Contracted Reliability Services

 Contemporary Condition Monitoring consultancy to assist clients with the mangement of their Health Based Maintenance program



TECHNOLOGIES AND SERVICES

Vibration Analysis

Unbalance

Looseness

Resonance

Pump issues

Gear faults/wear

Inadequate lubrication

Bearings

Steam traps/valves

Lubrication

Gear faults/wear

Wrong oil/mixed

Oil degradation

Contamination

Fuel dilution

Leaking seals

Bearings

Overheating

Thermography

Bearings

Overheating

Steam traps/valves

Flammable gas leaks

HV issues

Electrical wiring faults

Heat exchanger blockage

Refractory applications

Ultrasound

Inadequate lubrication

Steam traps/valves

Bearings

Flammable gas / air leaks

HV issues

Corona discharge arcing

Heat exchanger tubes/plate







Over 40 years' combined experience in the fields of Condition Monitoring, Practical Reliability Engineering and Maintenance Practices.

Worked with many of the Blue-Chip companies in the UK and Australia.

Our experiences ranges from Lubrication, Thermal Imaging, Vibration Analysis, Ultrasound, NDT, Maintenance Planning, Maintenance Improvements, Project Management and Mechanical Maintenance including on-site Dynamic Balancing and Laser Alignment.

We are qualified to ISO 18436-2 VA Level 3, ISO 18436-4 LM Level 2, ASNT-SN-TC-1A IRT Level 2, ASNT-SN-TC-1A UT Airborne Level 1 & Asset Reliability Practitioner Category I (ARP).

Registered with Engineers Australia in the Mechanical College, Engineering Council UK as Engineering Technician and with the British Institute for Non-Destructive Testing as an Associate Member.

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