

# Reliability Strategy Solutions

*Time-based Preventive Maintenance Drives a Reactive Culture*

Scheduled PMs are ineffective because they are not detailed or quantitative and they usually do not address failure modes. In addition, many PMs are not being performed because limited manpower resources must respond to unexpected machine failures. As a result, plants waste money on a “fix it” approach to maintenance: a machine breaks, the maintenance team heroically arrives and eventually gets the machine up and running.

Asset breakdowns dictate maintenance workflow and the cycle repeats. The “fix it” approach leads to inefficient use of manpower, bloated MRO inventories and lost output.

Through Emerson’s graded failure analysis, we can apply rigorous Reliability Centered Maintenance to systems at the top criticality level and a graduated approach to the remaining systems depending on their criticality level.

## EMERSON’S SOLUTION

Statistics show that plants perform best when maintenance is based on measurements of asset health. Predictive technologies indicate problems before they become critical, providing planners a cushion that can accommodate maintenance procurement and operational objectives. When equipment maintenance is approached in this systematic way, reactive jobs begin to drop from a typical 80% to less than 10% of activity. When our solution takes hold, benefits also flow downstream to MRO stores because parts are ordered when they are needed.

We have found that one size does not fit all. The mix of predictive technologies, information systems, and management processes required to address each plant is as unique as the plant itself. Many plants have put some pieces in place, but only after assembling all aspects into a holistic system, will the plant realize a step change in performance. Emerson will help you evaluate what you have and what you still need and will help you put the missing pieces in place.

## WHY EMERSON?

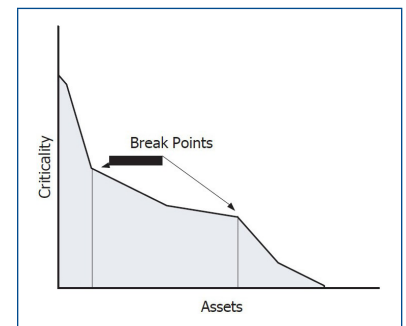
Emerson’s Reliability Consulting focuses on the business benefits of reliability. Emerson invented the Business Case for Reliability™. We focus on achieving hard dollar benefits and deploy unparalleled depth, from consulting to implementation.

When you need an accurate master equipment list, we will conduct the census to build it. We have distilled the many years of experience into Tools, accelerators, PM Libraries, and Equipment Failure Modes & Effects that enable us to achieve unequalled efficiency and quality, delivering you the highest quality results sooner.

We have also shaped our implementation practices around best of breed change management techniques that assure your people drive the results you need.

Our strategy development services could include any of the following:

- Business Case for Reliability Workshop
- Reliability Gap Analysis
- Master Equipment List Development/Census/Walkdown
- PdM Baseline
- Maintenance Optimization Matrix (MOM)
- Asset Health Reports
- RCFA
- PdM Services and Skills
- RCM/FMEA
- Equipment Criticality



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