



# PM/PdM Optimization Services

## Looking to develop or optimize your PM or PdM program?

*The quality of a preventative maintenance (PM) plan can make or break a reliability program. Unfortunately, most PM programs are burdensome and may do more harm than good. We use proven quantitative techniques for PM development and failure-based techniques for integrating predictive maintenance (PdM) technologies.*

## WHY PM PROGRAMS FAIL TO DELIVER

- Most PM tasks are not based on Failure Modes
- Too many of the wrong PM tasks
- Asset unavailability during PMs can outweigh reliability gains
- Lack of management focus - often viewed as low priority
- PMs not adequately grouped and leveled for efficient execution
- Inconsistency of PM tasks
- The technical basis for PM tasks is rarely known or recorded
- PM tasks performed regardless of asset condition
- PMs rarely removed from the system
- Time based PMs actually introduce failures
- Inappropriate use of “low tech” equipment (overall pens, IR guns, free oil analysis)
- Allocation of “part-time” personnel to technologies
- Lack of personnel selection criteria
- No clear training and certification criteria
- No mentoring provided
- Used as pure data collection: corrective work not executed
- Technologies applied to a small percentage of asset base
- Over-dependence on one technology
- Poor reporting and communication
- No metrics
- Lack of follow-up and acceptance

## OUR OPTIMIZATION PLAN

### ■ PM/PdM Strategy Session

This session is used to ensure that site personnel understand PM and PdM management capabilities and how to approach a new program.

### ■ PdM Baseline Development

Define the scope of opportunity that exists for the application of PdM technologies and develop a 100% PdM baseline model to compare the actual coverage, desired coverage and top quartile performance benchmarking coverage.

### ■ Failure Analysis

Identify the most likely failure modes (root cause) of each functional failure and define the consequences of those failures.

### ■ Overall Evaluation

Evaluate the program to find out if PMs are identifying any corrective work and if they are being properly performed.



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