

Less equipment wear, better performance



Whether you want to save energy, increase productivity or improve profitability, EMCOR Services Northeast's preventive and predictive maintenance solutions can help. They combine equipment and systems expertise with today's leading-edge technologies to help identify potentially serious problems before they become expensive performance disruptions. The result is increased reliability and improved cost control, so you can meet today's tough economic and competitive challenges more effectively.

Vibration analysis: *The problem*

Vibration occurs when a machine or one of its components moves back and forth, up and down, or side to side rapidly. Sometimes it's desirable. More often, it's not. When it occurs in pumps, motors, bearings, fans and similar components, it may indicate poor balancing, looseness, misalignment or other harmful conditions. The result is the kind of continuous wear that can interrupt your operations, costing you time, money and production. A vibration analysis program is one of the most effective ways to avoid these problems, before they occur.

Vibration analysis: *The solution*

Using today's most advanced vibration analysis technology, EMCOR Services Northeast's experts establish a vibration baseline for your critical equipment. Then, they measure performance regularly, watching for significant baseline deviations. This lets them detect problems and identify causes early, so you can plan ahead and schedule appropriate maintenance procedures when they're convenient. It's a smart way to prevent major failures, minimize operational disruptions and reduce the impact on your business.

A preventive approach, using vibration analysis provides:

- Increased equipment life
- Elimination of equipment failures
- Overall operational savings
- Improved productivity and efficiency
- Diagnosis of dynamic or wear-related faults
- Analysis of potential excessive energy consumption

Vibration analysis: *The benefits*

EMCOR Services Northeast's expert vibration analysis procedures can help you avoid:

- » Major repairs and costly replacements that result from extensive machine damage
- » Quality reductions and expensive warranty returns, since poorly functioning equipment seldom produces high-quality products
- » Unnecessary materials waste, because when a breakdown occurs, materials often need to be discarded
- » Damage to other equipment and/or parts caused by the improper operation of failing components
- » Unexpected shipping delays, which can result in cancelled shipments, late payments, even loss of customers
- » Higher energy costs that result when efficiency declines and your equipment has to compensate by consuming more energy
- » Unnecessary maintenance costs from scheduled maintenance routines that require shutting down equipment and replacing parts that may still be functioning properly

***Building Relationships.
Building Solutions.***