

Vital Equipment Diagnostics at a Northeast Hospital

Challenge:

A large hospital in the Northeast USA with limited internal resources for vibration analysis needed to monitor machines vital to critical operations. A system was selected that would provide near real time data to a web-based server. System would need built-in diagnostics to allow their Maintenance Group to be able to concentrate on repairs instead of analysis.



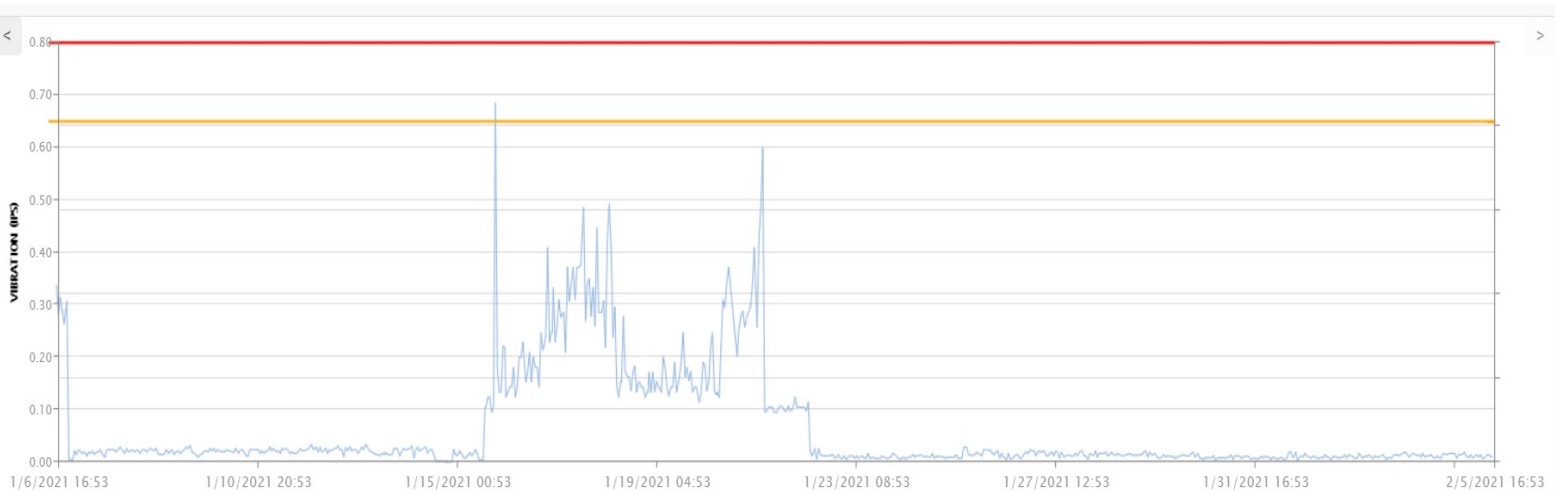
Typical equipment cooling fan.

Solution:

Installation of the i-ALERT System on all critical assets coupled with the use of i-ALERT Gateway's to allow remote 24x7 monitoring of assets critical to the operation of all facilities (including intensive care units).

Outcome:

Once the system was in place, several impending failures were caught, using integrated diagnostics, allowing scheduled maintenance prior to an in-use failure. One such item was a belt driven centrifugal cooling fan for critical ICU equipment. The i-ALERT System sensors detected and resolved an increasing horizontal vibration and the diagnostic rules engine pointed to an issue with worn sheaves. Maintenance staff was able to remove the fan from service and repair it prior to it affecting the ICU operations during a time of critical need.



High vibration levels that initiated a shutdown of the equipment for repairs.