



Pharmaceutical applications

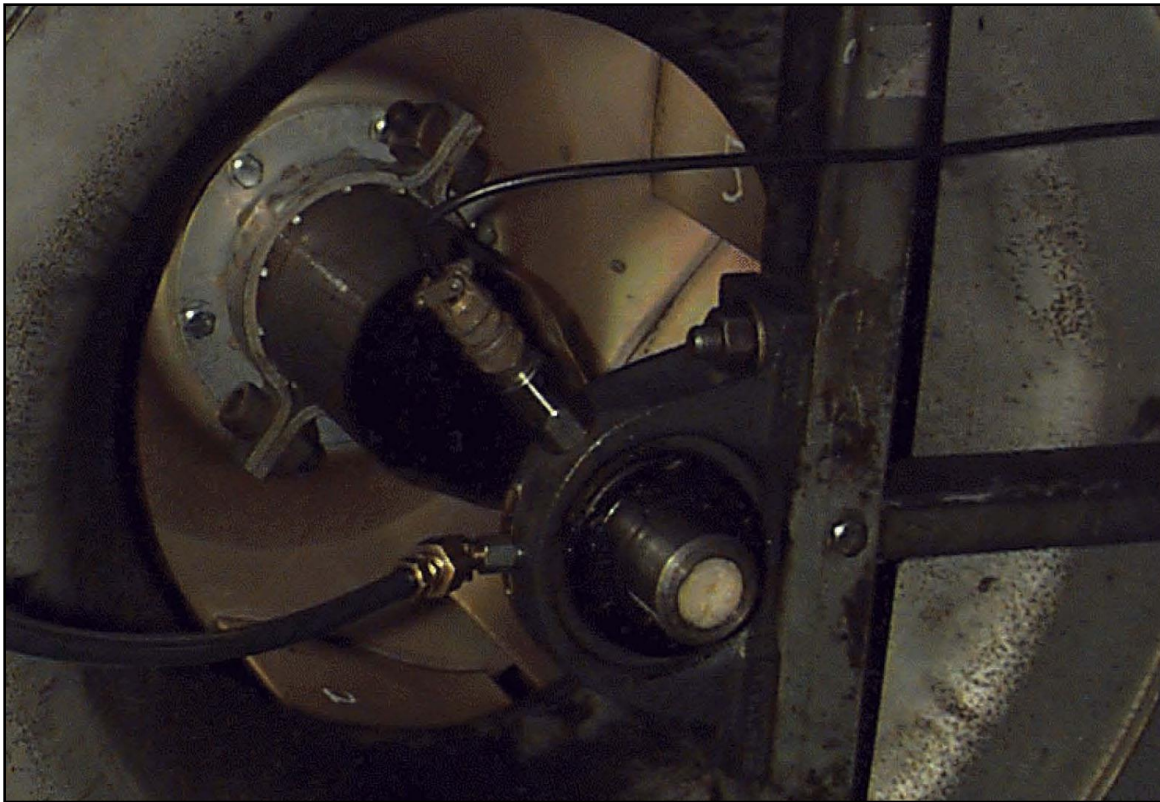
May 2012

Air handling

- Monitor
 - Flow turbulence (broadband energy, velocity)
 - Potential cavitation problems (broadband energy, acceleration)
 - Blade pass frequencies (BPF – discrete frequencies with harmonics)
 - Trim balance the rotors on the air handlers (1x running speed)



Air handler



Wilcoxon models used: 780A and 786A

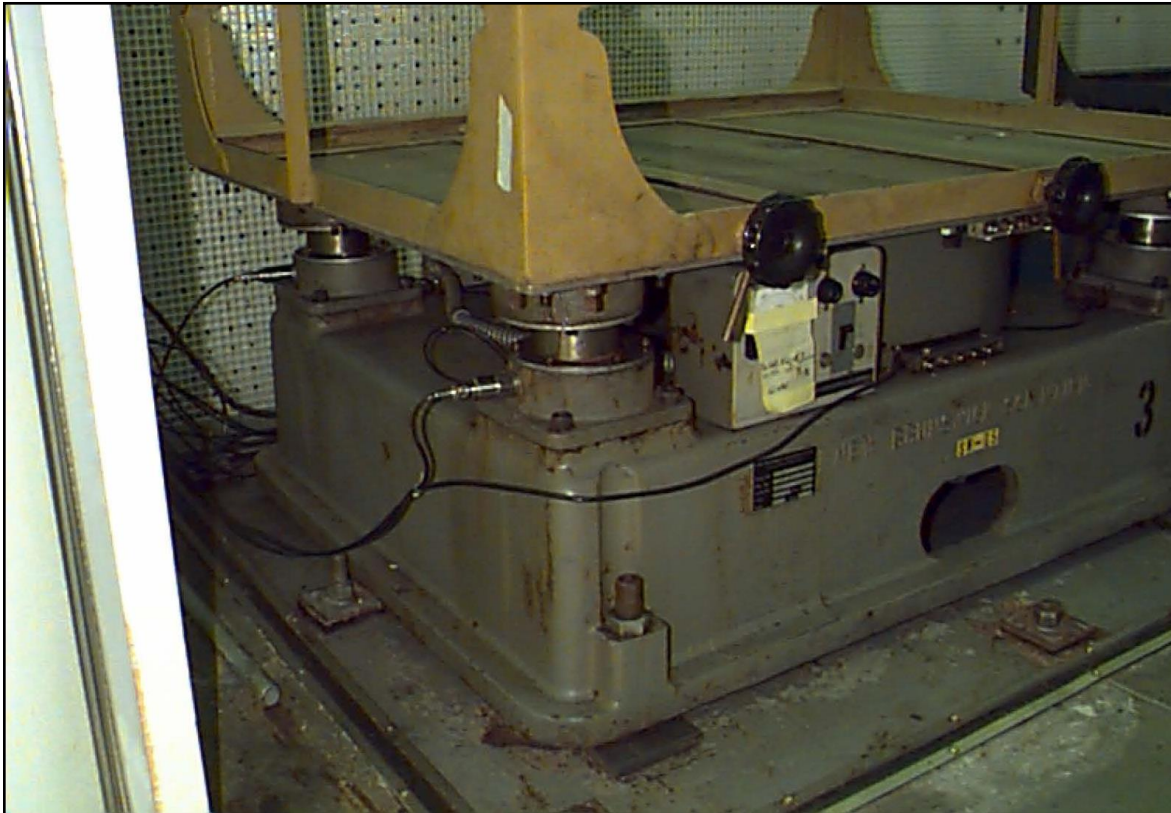


Chemical shaker

- Monitor
 - The bearings of a low vibration level chemical shaker (machinery maintenance – discrete frequencies)
 - The vibration level of the shaker (process measure – broadband energy)

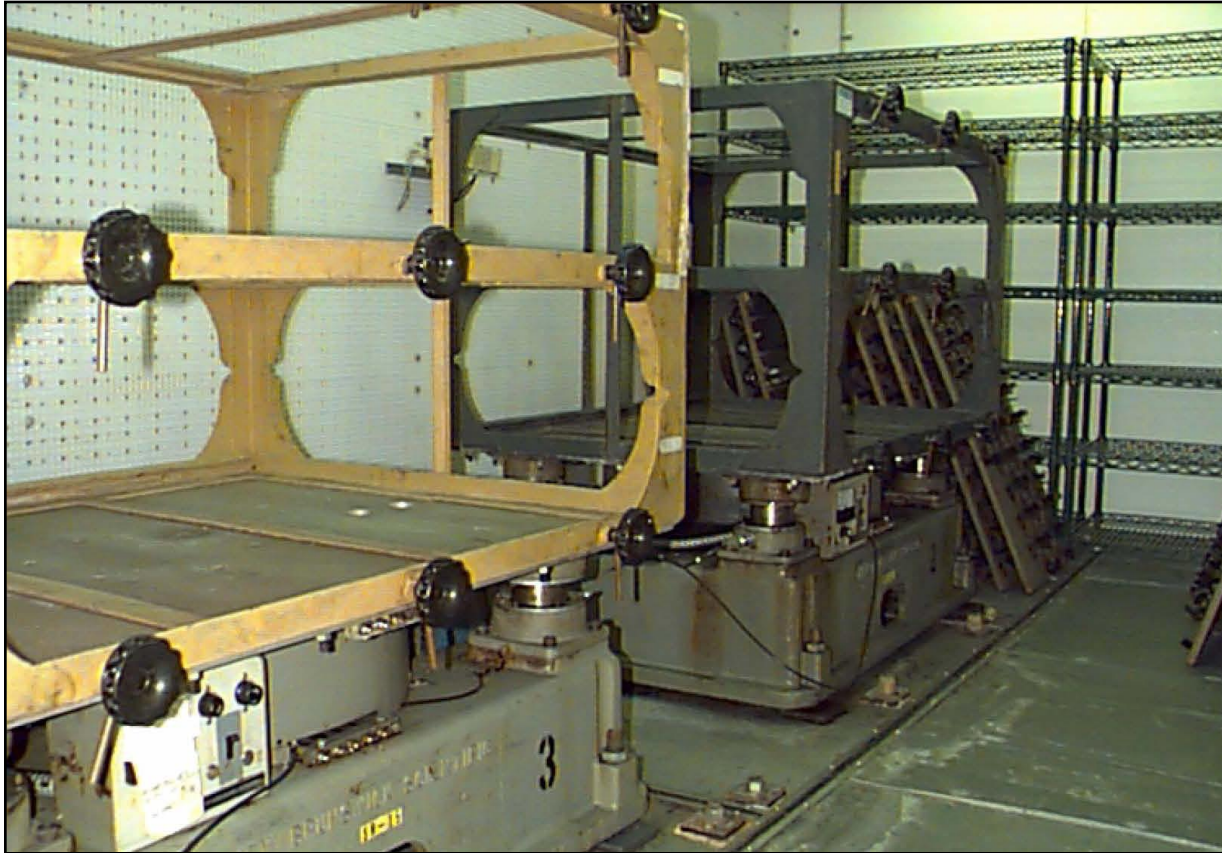


Chemical shaker



Wilcoxon model used: 786A

Chemical shaker



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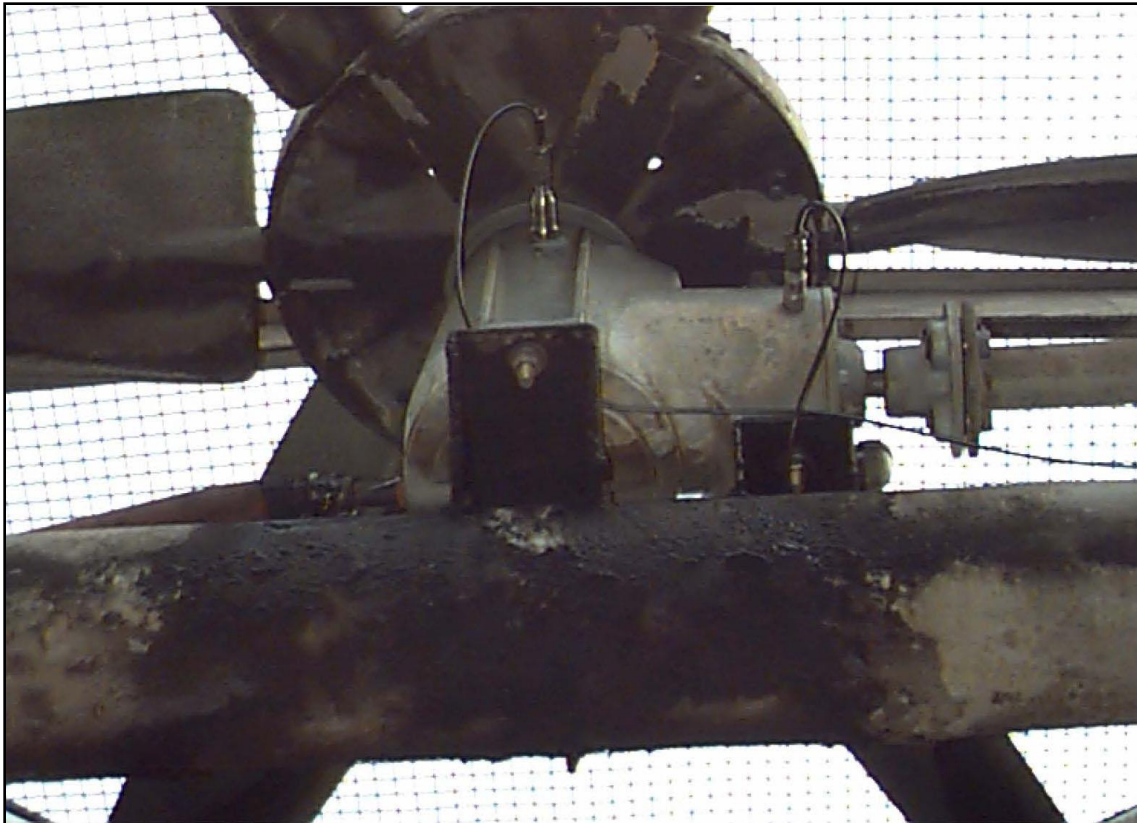


Cooling tower application

- Monitor
 - The shaft on a low speed fan for imbalance (gearbox output, <100 rpm)
 - Motors and gearboxes (1x, gearmesh and harmonics)
 - Blade imbalance (Low speed 1x)
 - Bearing wear (high frequency metal to metal contact)




Cooling tower fan



Wilcoxon model used: 793L and 786A

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