



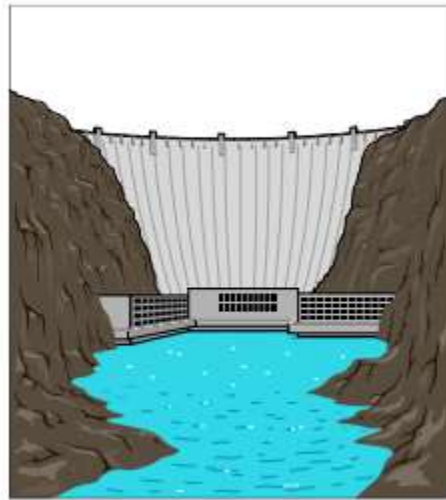
**Power generation applications**

**Wilcoxon**  
SENSING TECHNOLOGIES

# Power generation applications

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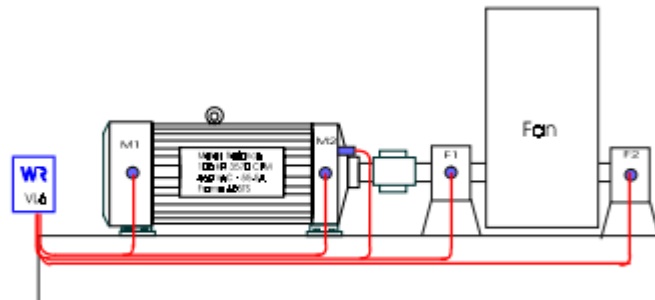
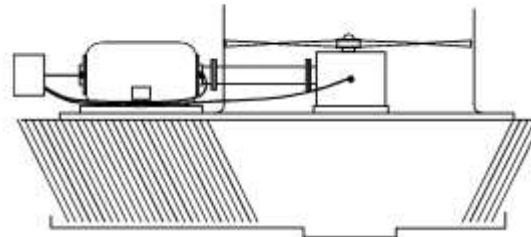
- Nuclear
- Fossil fuels
- Hydroelectric
- Solar



# Power generation applications

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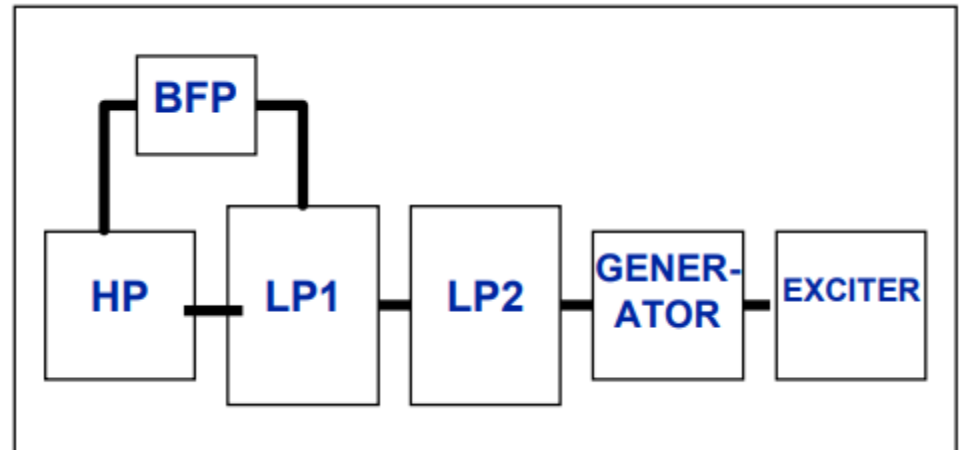
- Steam turbines
- Gas turbines
- Cooling towers
- Boiler feed pumps
- Scrubber fans



## Steam turbines and boiler feed pumps

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- Use PVT (Piezo-Velocity Transducer with Proximity Probes) for absolute shaft measurement
- 793V and 797V will replace electrodynamic velocity sensors in IRD and Bentley Nevada Systems
- PVTs reduce cavitation overload by attenuating high frequency noise
- “R” version used for radioactive environments



## Gas turbines

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- High temperature sensors near combustion chamber
  - Examples 376B, 797-6, Barium titanate sensors, Electrodynamic velocity sensors
- Use general purpose accelerometer on cooler locations
  - Examples: 793, 797, 786A



# Hydroelectric generators

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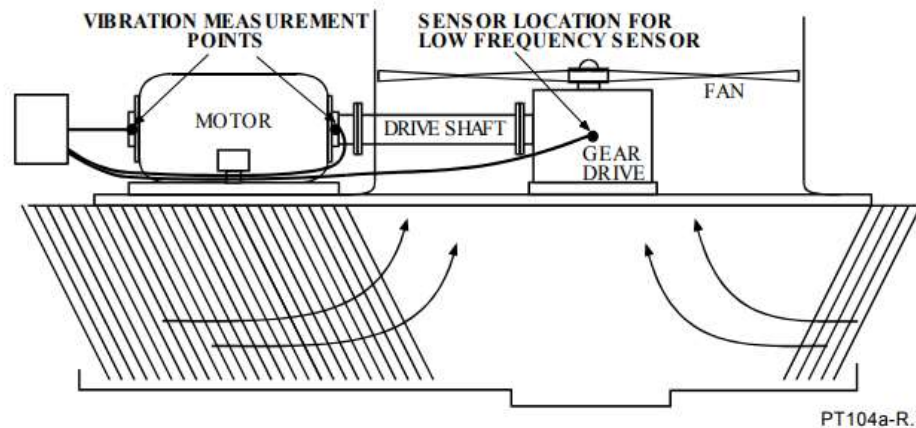
- Use low frequency accelerometer on Water Turbines
  - Examples 793L, 797L, 799LF



# Cooling towers

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- Use low frequency accelerometer on Cooling Tower Motors
  - Examples 797, 786A



- Route cables to VL Switch Box at the base of the tower

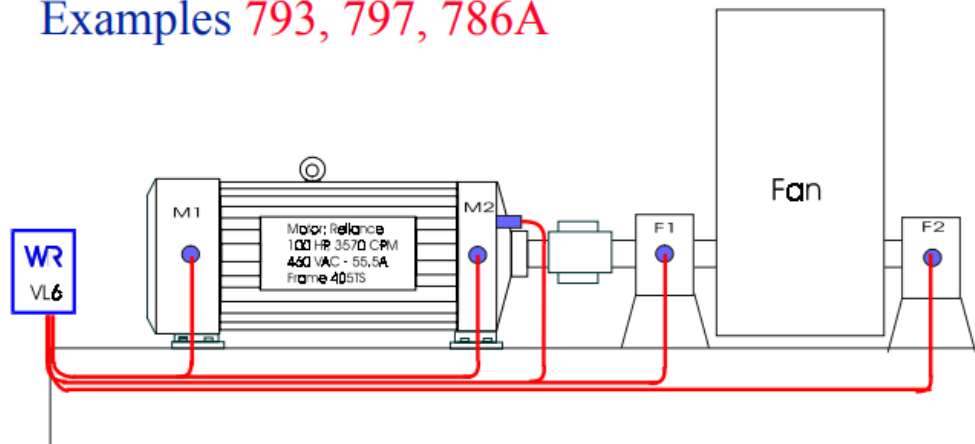
- Use low frequency accelerometer on Cooling Tower Fan Gearboxes
    - Examples 797L, 799LF
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# Scrubber fans

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- Use general purpose accelerometer on Scrubber Fans

Examples 793, 797, 786A




- Route cables to VL Switch Box at central locations

- Monitor each bearing in the horizontal plane and one measurement in the axial for each direct coupled shaft configuration. Vertical positions can be added for more complete information



## Wilcoxon Sensing Technologies

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