

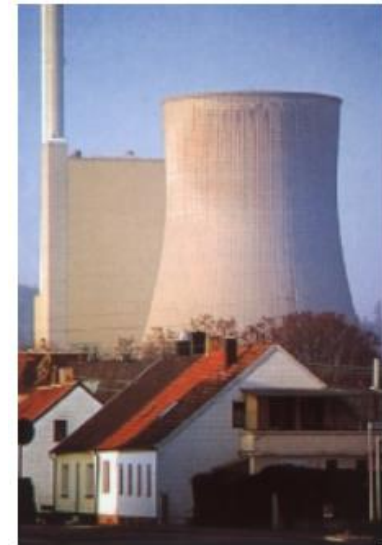
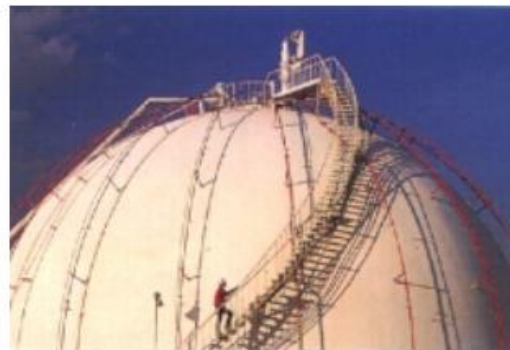
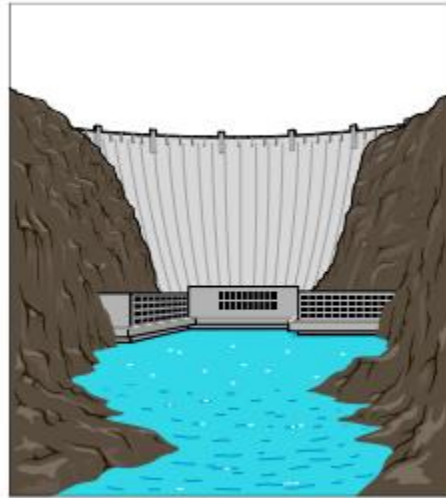


Power generation applications



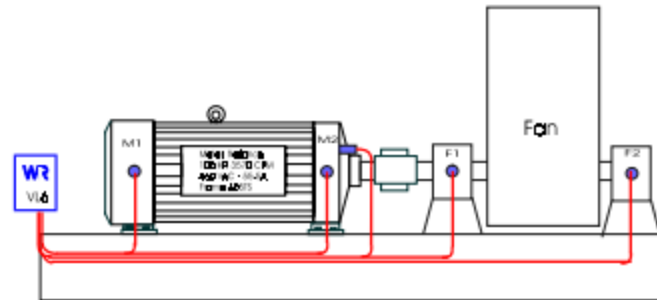
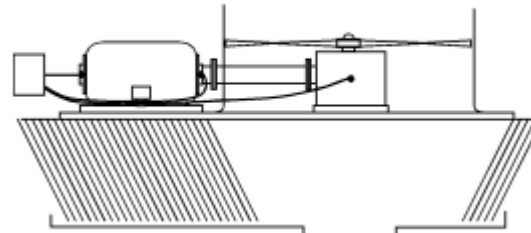
Power generation applications

- Nuclear
- Fossil fuels
- Hydroelectric
- Solar



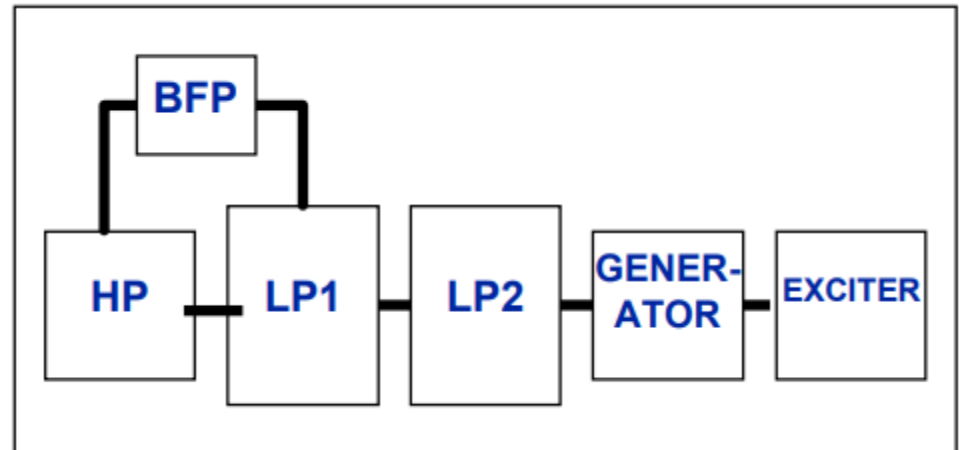
Power generation applications

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



Steam turbines and boiler feed pumps

- 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

- 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



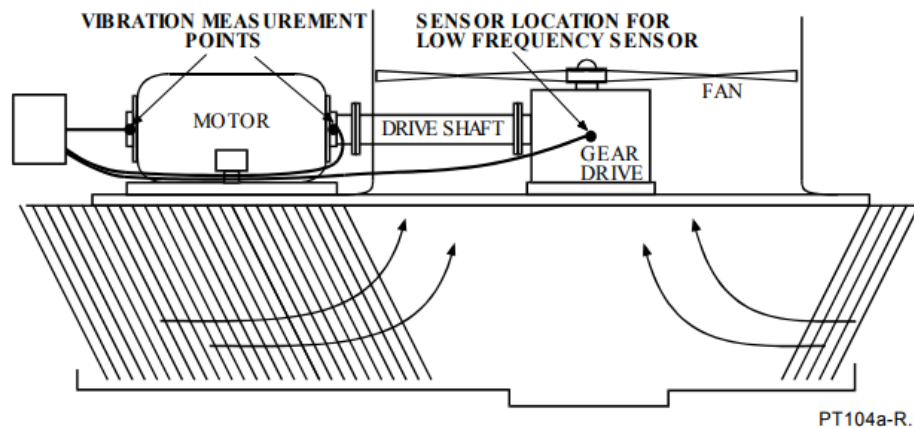
Hydroelectric generators

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



Cooling towers

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



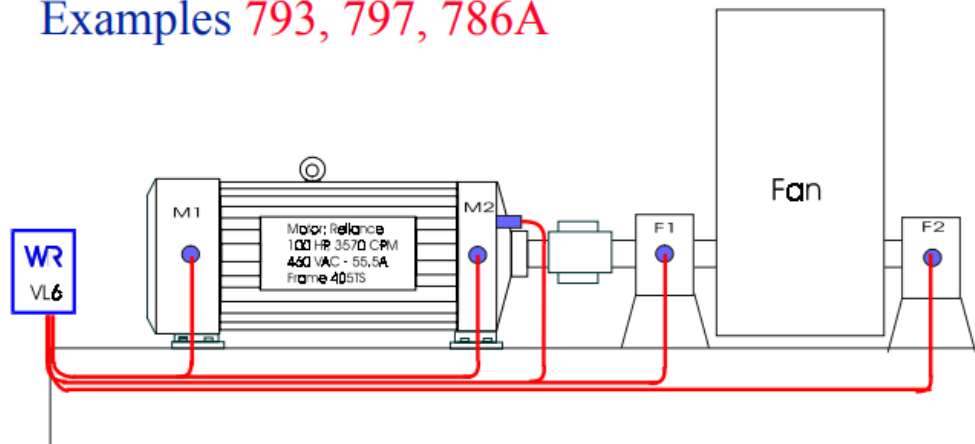
- Route cables to VL Switch Box at the base of the tower

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

Scrubber fans

- 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

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