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, Electrodynamc 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

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

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