Discussion Group T17: Torsional Monitoring

Leaders:

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- Brian Pettinato (Elliott Group)
- Thomas Eldridge (Shell)
- John Kocur (ExxonMobil)
- Troy Feese (Engineering Dynamics Inc.)

Suggested Topics:

- Introduction
  "Last significant Safety, Health, and Environment threat to rotating equipment that we don't measure,"
  J. Kocur, Turbosymposium '13

Recent Torsional Related Incidents

- Torsionally Induced Coupling Slips and Failures
- VFD induced torsional failures
- Other Incidents

Contractual Requirements

- FAT Measurement, Commissioning Measurement, or Continuous Monitoring?
- End user mandates of torsional verification - What's Important?
  a. Verify Natural frequency?
  b. Verify Separation Margin?
  c. Verify Absence of Destructive Excitation Sources?

Torsional Measurement

- Mean Torque vs Dynamic Torque Measurement
- Measurement Devices currently available
  a. Permanent vs Temporary
  b. Frequency vs Amplitude and Frequency
- Development Efforts