

DISCUSSION GROUP 1: Monitoring Vibration and Other Critical Machine Conditions

Coordinators:

William D. Marscher (Mechanical Solutions, Inc.)

Ron Adams (Sulzer Pumps)

Dag Calafell (Exxon-Mobil)

Simon Bradshaw (ITT Goulds)

Al Miller (Flowserve Corp.)

Jack Claxton (Patterson Pump Company)

Paul Boyadjis (Mechanical Solutions, Inc.)

Maki Onari (Mechanical Solutions, Inc.)

Ed Watson (Dupont)

Hans Weyermann (ConocoPhillips)

Selected Topics:

- Wireless devices: radio noise, effectiveness, experiences, security
- Condition based monitoring on reciprocating compressors
- Overall, RMS or spectra for shut down?
- Settings for Alarms & shut down
- Centrifugal compressor trip philosophy
- Gearbox monitoring experience
- Vertical pump monitoring
- Vertical pump vibration standards
- Vertical turbine pump structural resonance analysis
- Value of, and ROI of, condition-based monitoring
- Condition assessment
- Modular pump installations, i.e. experience with non-grouted baseplates
- Vibration test methods and proper use
- Operating Deflection Shapes and integration with condition-based monitoring
- Condition monitoring methods
- How do you determine what equipment to shut down?
- Effectiveness of condition monitoring on rotating equipment
- Seals and bearings – how they affect vibration