



VIBROSYSTM PRESENTATION ON MACHINE CONDITION MONITORING – CASE STUDIES

HYDROVISION BRAZIL

September 19th, 2011

8:00 am to 3:00 pm

Rio de Janeiro, Brazil

AGENDA

- 8:00 Coffee
- 8:30 Introduction and Welcome
by Wellington Gomes, VibroSystM, Canada
- 8:35 Generator Monitoring Technology Overview
by Wellington Gomes, VibroSystM, Canada
- 9:00 Introduction to Software Interface
- Basic graphs, functions and terminology
- Analyzing Vibration – Rotating and Static Equipment
- How to diagnose shaft vibration
 - Case Studies:
 - Extreme shaft displacement upon field flash
- by André Tétreault, VibroSystM, Canada*
- 10:00 15 Minute Coffee Break



- 10:15 Mechanical Rotor Issues
- How to diagnose rotor integrity
 - Case Studies:
 - A. Rotor Rim behavior under overspeed conditions
 - B. Common behavior of rotor during field flash
 - C. Avoiding unnecessary repairs through correct diagnostics
- by André Tétreault, VibroSystM, Canada*
- 11:15 Case studies on:
- Severe rotor rim issues on bulb unit
 - Thrust guide bearing issues
 - Blade tip and ThermaWatch Stator observations
 - Rotor pole temperature observations
- by André Tétreault, VibroSystM, Canada*
- 12:00 Lunch Break
- 1:00 Mechanical Stator Issues
- How to diagnose Stator integrity
 - Case Studies:
 - D. Stator movements caused by seasonal effects
 - E. Extreme rotor/stator behavior after machine uprating
- by André Tétreault, VibroSystM, Canada*
- 2:15 10 Minute Break
- 2:25 Open Discussion/Q&A
- 3:00 End