

Online Condition Monitoring Training for Hydro Applications

1. Maintenance Methodology

1. Periodic/Planned Maintenance
2. Breakdown/Forced Maintenance
3. Predictive Maintenance
4. Proactive Maintenance
5. (Root cause analysis)

2 (A). Vibrations in Rotating Machines

- i. Introduction & Theory
- ii. Characteristics of Vibration
- iii. Phase
- iv. Vibration Transducers

2 (B). Defects Encountered in Vibration Analysis

- i. Unbalance
- ii. Misalignment
- iii. Looseness
- iv. Gear Box Problems

2 (C). Vibration Analysis & Fault Diagnosis Using various Signal Processing Techniques

- i. Time Domain
- ii. Frequency Domain
- iii. Statistical Domain
- iv. Cepstral Domain
- v. Wavelet Technology

2 (D). Pre Outage Survey & Checks

2 (E). Vibration of Hydro Turbine-Generator Unit

2 (F). Field Balancing of Large Rotating Machinery (1 & 2 Plane Balancing)

2 (G). End winding and Stator Bar Vibration

3. Online Air Gap Monitoring & Case Studies
4. Online & Periodic Partial Discharge Measurement & Fault Analysis of Generators & Motors
5. Online & Periodic Measurement and Diagnostic of Partial Discharge Measurement of Transformer & GIS
6. Online Flow Discharge Measurement in Hydro Power Plants
7. Online & Periodic (Portable) Silt Monitoring System
8. Ultrasonic Detector & Analyzer for Leakage, Bearings and Electrical Fault like Arcing, Tracking & Corona.
9. Transformers Fault Analysis Techniques.
 - i. Dissolved Gas Analysis
 - ii. Sweep Frequency Response Analysis
 - iii. Furan Gas Analysis

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