rotating\_machinery\_management\_D2.txt Day 2 - Rotating Machinery Reliability Excellence Powerpoints 90 slides See details and download at http://www.feedforward.com.au/Powerpoints/Reliability/machinery\_reliability\_Excellen ce.htm MECHANICAL EOUIPMENT AND MACHINERY STANDARDS 6 Mechanical Equipment Care Standards to Set, Use and Keep Using Balanced Rotors and Balancing Standards Rotating Equipment Balancing Shaft Coupling Problems Appropriate Key Length for Assembly Coupling Bolts and Washers Specification for Coupling Assembly Burred Shaft5Either on end or next to bearing face Activity 1 Balancing Case Study Effects of Shaft Misalignment Causes of Shaft Misalignment Coupling Flexing Points Locations Accuracy and Limits for Alignment Precision Alignment Practice . Pre-Alignment Checks . Rough-In Alignment . Precision Alignment Alignment Records Off-line to Running (OL2R) Machine Movement Case Study 2 - Important Factors when Doing Shaft Alignments CONDITION MONITORING METHODS FOR ROTATING MACHINERY Range and Choice of Condition Monitoring Methods Condition Monitoring Degradation Selecting Condition Monitoring using the Three Point Inspection Frequency Machine Shape Deflection VIBRATION ANALYSIS Rotating Machinery Vibration Causes of Vibration Bearing Vibration Causes ISO Standards for Vibratid valuation Allowable Vibration Severity Vibratory Condition Based Monitoring Rotating Shaft Vibration Measurement The Value of a Baseline Vibration Signature Rotating Bearing Vibration Displays TRIBIOLOGY AND LUBRICATION ANALYSIS Wear Particle Analysis Analysing Properties of LubricantS Sustaining Lubricant Health Lubricant Management Programs THERMOGRAPHY ROTATING EQUIPMENT NON-DESTRUCTIVE TESTING Radiography (X-Ray, Gamma Ray) Magnetic Particle Inspections Dye Penetrant Procedures Ultrasonic Scanning (thickness, cracks, inclusions, etc)

rotating\_machinery\_management\_D2.txt Visual Inspections (human eyes, borescope, etc) Performance Monitoring (human senses, temperature, pressure, pH, etc) RELIABILITY AND MAINTENANCE STRATEGY MIX The Six Purposes of Maintenance Equipment Availability as a Function of Maintenance Costs Asset Management & Business Performance Reliability and Maintenance Best Practice Assessment Plant and Equipment Life Cycle When Operating Costs are Committed Component & System Reliability Modelling Reliability of Parts and Components Reliability of Systems of Parts and Components (i.e. Machines) Equipment Reliability Strategies Failure Mode and Effects Analysis (FMEA) Equipment Criticality Rotating Equipment Maintenance Strategy PM - PdM - Replace - Breakdown Mix Operator Driven Reliability A Strategy for Equipment Reliability Maintenance KPIs and Outcomes Maintenance Quality Improvement Use Visual Management for Feed Forward Control of Performance Activity 4 - RE Life-Cycle Reliability Strategy See details and download at

http://www.feedforward.com.au/Powerpoints/Reliability/machinery\_reliability\_Excellen ce.htm

rotating machinery, reliability excellence, powerpoints, powerpoint course, equipment vibration, equipment monitoring, machinery maintenance, shaft reliability, maintenance management, maintenance strategy, mechanical equipment, condition monitoring, shaft alignment, bearing reliability, coupling alignment, reliability maintenance