rotating_machinery_management_D4.txt Day 4 - Rotating Machinery Reliability Excellence Powerpoints 83 Slides

See details and download at http://www.feedforward.com.au/Powerpoints/Reliability/machinery_reliability_Excellen ce.htm

RISK REDUCTION STRATEGIES IN ROTATING MACHINERY DESIGN AND OPERATION

Understanding and Measuring Risk Chance vs. Consequence Risk Reduction Methods Applying Risk Reduction During Design Understanding and Measuring Risk What is a High Potential Incident? Similarity between Safety Incidents and Equipment Failures Applying Risk Reduction Which Risk Reduction Methods are Best? Risk Management Process

DESIGN AND OPERATING COST TOTALLY OPTIMISED RISK

Life Cycle Operating Cost Failure Cost Impact Calculations Design and Operating Costs Totally Optimised Risk (DOCTOR) Life Cycle Risk Management Strategy

LIFTING LIFETIME RELIABILITY

Failure Mechanisms Equipment Reliability Overview Reliability Mathematics Measuring Reliability for Components - Weibull Plot Calculating The Reliability of Systems Reliability of Series Systems (i.e. Machines)
Reliability of Parallel Systems (i.e. Machines) Crow - AMSSA Reliability Growth Plotting Reliability Implications for Maintenance Failure Mode Effects Analysis (FMEA) Fundamentals Failure Mode Effects Analysis Reliability Centred Maintenance fundamentals The RCM Process and Method Choosing of Maintenance Ty - Simplified RCM Method Activity 1 - FMEA exercise,

ROOT CAUSE FAILURE ANALYSIS (RCFA)

Root Cause Failure Analysis Process

- . RCFA fundamentals
- Finding the Evidence and Proof Applying RCFA in the Workplace

How RCFA Contributes To Improvement

RCFA is Fundamentally about Finding the Cause Behind the Cause

Cause Behind the Cause - Latent Thoughts

The Real Cause?... Latent Values

The RCFA Process

Data Gathering Following an Incident Data Analysis to Release Information

Extra Clues for Causes

Developing and Implementing Solutions

Operating and Maintenance Records for Reliability Improvement

Importance of Keeping Accurate Records and History

Making RCFA 'Live' in the Workplace

Cross-functional Teams

For the Shopfloor - The 5 Whys method

rotating_machinery_management_D4.txt Operator and Maintainer Buy-in for Improvement Activity 2 - RCFA Exercise

MANAGING ASSET INTEGRITY

Asset Management in a Nutshell Rotating Equipment Asset Integrity Control of Asset Integrity Asset Integrity Means...

. Design Integrity

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Technical Integrity (mechanical integrity)Operating Integrity Threats to Technical Integrity Commonly Reported Areas of Inadequate Process Safety Programs Rotating Equipment Startup Delays Technical Integrity Assurance Taking Integrity into Operations Use Effective Asset Integrity Processes
Use Structured Review Audits
Structured Review Audit Objectives Measuring and Rating Objectives Machine Integrity Inspection Guide Notes Example Model for a Plant Tour Reciprocating Compressor Example No Equipment Management Oversight Activity 3 - Plans and Actions to Improve Rotating Machinery Reliability

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rotating machinery, reliability excellence, powerpoints, powerpoint course, risk assessment, machinery reliability, rcfa, integrity, reduction, operating risk reduction, asset, management, root cause analysis, equipment maintenance, equipment design, cause failure analysis, totally optimised, cause failure, mode effects

