

Greasing Electric Motors

Part 1 by Howard W Penrose,
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ALL-TEST Pro, A Division of BJM Corp

The lubrication of electric motors can be a critical maintenance practice for improved motor system reliability. Unfortunately, a significant amount of misinformation is provided within industry. For instance, those with a lack of knowledge of how motors and bearing work will often promote the 'purging' of motor grease, frequently. This practice puts undue stress on the motor, reducing its life and increasing the chance for both bearing failure and winding contamination. More...

[Read the full story](#)

Doing The Right Things Right

A Framework for Maintenance Effectiveness by John R. Chute,
P. Eng., C.P.E., Paper -Mills Maintenance Engineer,
UPM-Kymmene Miramichi Inc.

This is just one of the fantastic learning zone session papers originally delivered at the 18th International Maintenance Conference.

Maintenance and asset management for today's companies must be business-centered to support corporate productivity goals, by providing equipment availability, performance and overall minimum costs. In spite of the development of new maintenance strategies such as Reliability-centered Maintenance, the widespread use of computer maintenance systems (CMMS) and new tools for condition monitoring, it is somewhat questionable whether maintenance organizations in general, are better able to meet the real needs of today's industry that they were a decade ago. Have we have drifted away from the "basics" of sound work practices to rely blindly on technology and maintenance-management strategies? Perhaps we are not consistently doing "the right things" with the diminishing resources available to our maintenance organizations.

This paper addresses the issue of today's maintenance requirements with statistics to support these concerns. The essentials of maintenance are revisited, with a proposal for a new framework for maintenance effectiveness based on "Core Values". These serve as a "roadmaps" to take us to where we need to go. Without these, we in maintenance will get somewhere, but perhaps too late to play the necessary role in supporting the profitability of our Western industries. More...

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Achieving Maximum ROI with Asset Management Best Practices

A White Paper by PeopleSoft

According to Performance Consulting Associates (PCA), a leading provider of maintenance best practices and asset care solutions, companies that don't change their work practices and simply rely on maintenance software to deliver benefits use only 25 to 30 percent of their EAM products' capabilities. To make the most of EAM investments, companies must restructure their work management processes.

To meet this need, PeopleSoft created EnterpriseOne ALM Performance Plus, a preconfigured asset management methodology and software solution that uses proven best practices developed by PCA to help companies maximize equipment availability and reduce maintenance costs. More...

[Achieving Maximum ROI with Asset Management Best Practices White Paper Download](#)

Integrating Vibration, Motor Current, and Wear Particle Analysis with Machine Operating State for On-line Machinery Prognostics/ Diagnostics Systems

By Dana Martin and Joe Van Dyke, P.E., DLI Engineering

Integration of system process information with expert system vibration analysis to improve the accuracy of rotating machinery fault detection in on-line condition monitoring systems is the main focus of this paper. An overview of the condition based maintenance system MPROS (Machinery Prognostics/Diagnostics System) being developed for the US Navy is presented. Details are provided regarding several currently operating prototype systems installed on both shipboard and land based air conditioning plants. Finally a case study is presented which utilizes data from a prototype system to examine several of the relationships between air conditioning compressor vibration signatures and system process parameters. Understanding and utilizing these relationships will enable accurate diagnostics and provide the in-depth data that is needed to support prognostics. More...

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Why Perform a Leak Detection Audit?

An iPresentation Tutorial by Jim Hall, Ultra-Sound Technologies, LLC

Join Leak Detection expert, Jim Hall in an informative 8 minute iPresentation Tutorial as he provides case histories and a business case for developing a leak detection program at your plant. Current Media Player required for narration playback.

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Lean Maintenance: Reduce Costs, Improve Quality, & Increase Market Share

Life Cycle Engineering® (LCE) is pleased to announce the release of "Lean Maintenance: Reduce Costs, Improve Quality, & Increase Market Share" written by Ricky Smith and Bruce Hawkins. "Lean Maintenance" is about doing more with less; less effort, less space, fewer defects, less throughput time, lower volume requirements, less capital for a given level of output and more. This cutting-edge book, developed by Smith and Hawkins, will show you how profitability will increase when you learn how to eliminate wasteful practices. This handbook provides detailed, step-by-step, fully explained processes for each phase of Lean Maintenance implementation providing examples, checklists and methodologies of a quantity, detail and practicality that no previous publication has even approached. It is required reading, and a required reference, for every plant and facility that is planning, or even thinking of adopting "Lean" as their mode of operation.

Smith, CMRP, CPMM, is the Executive Director of Maintenance Strategies for Life Cycle Engineering. He specializes in developing and implementing successful training , planned maintenance, and maintenance management programs. He holds a BS in Trades and Industrial Education from the University of Georgia. Hawkins, CMRP, CPMM, is a Managing Principal and Senior Maintenance Consultant for Life Cycle Engineering. He has over 25 years of experience in the maintenance and reliability field, specifically helping sights achieve significantly improved maintenance performance while dramatically reducing costs. He holds a BS in Mechanical Engineering from Clemson University.

LCE provides maintenance and reliability engineering solutions to the military, private industry and public organizations. Their focus is on achieving excellence in maintaining equipment, systems and facilities resulting in increased reliability. Clients gain increased profitability through greater capacity, lower operational costs and less downtime.

[Buy the new Lean Maintenance Book at Amazon.com](#)

Time Waveform Analysis

An iPresentation Tutorial by Jason Tranter of Mobius

This 24 minute iPresentation tutorial by Jason Tranter, will quickly introduce the basics of the time waveform, how to best collect the time waveform, and then we will explore classic waveform patterns for common signals, how to analyze a waveform, and finally how to diagnose faults via the time waveform. Media Player is required.

[Start your iPresentation Tutorial](#)

RCM-2005 issues this Call for Papers

Reliability Centered Maintenance Managers' Forum
March 9-11, 2005
Sheraton Sand Key Resort
Clearwater Beach, Florida
"Mastering Reliability"

Interested authors are invited to provide a 300 – 500 word typed abstract for consideration by the Technical Review Committee for inclusion in RCM-2005. Abstracts should be transmitted electronically to tohanlon@reliabilityweb.com and marked Attention: RCM-2005 Technical Program Chairman, and are due before August 15, 2004. Abstracts should include author's name(s), e- mail address, mailing address, phone number, and FAX number.

Submission of an abstract indicates the author's willingness to register for RCM -2005 at the standard rate and to attend to present the paper.

We encourage early submissions as we begin to evaluate papers as soon as they are received. Early papers have a higher probability of acceptance.

Successful authors will be notified by September 15, 2004, and will be sent manuscript preparation guidelines and conference registration information. Final manuscripts must be submitted electronically. Manuscripts, along with registration form and payment, will be due by November 15, 2004.

RCM-2005 is a focused event and we will only accept papers that are directly related to Reliability Centered Maintenance or other similar processes. We are seeking case studies with real numbers from both practitioners and RCM Consultants.

Reliability Centered Maintenance Managers' Forum

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