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**Maintenance and Reliability Workshop Sessions**



## Maintenance and Reliability Workshops

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### Code Descriptions:

C = Customer Case Study  
P = Panel Discussion  
T = Technical Training  
W = Workshop

“1-5” at the end of a session code indicates the length of the session. “1” being a one-hour session, “2” being a two-hour session, etc.

“A, B or C” at the end of a session code indicates the session is given more than one time. “A” represents the first time the session is being offered, “B” the second time, and “C” the third time. If an A, B or C does not follow a session code, the session is given only once.

## Maintenance or Plant Manager

### TUESDAY, MARCH 24, 2009

#### Session 1: 9:30 a.m. – 10:30 a.m.

##### **TCS-23-1A System 800xA introduction**

This training session will introduce the System 800xA Extended Automation System and the benefits it delivers. This overview presentation will exhibit how System 800xA extends functionality beyond that of other control systems through unparalleled connectivity, integrated applications and its many industrial IT enabled partners. This presentation sets the stage for many subsequent sessions and shouldn't be missed.

#### Session 2: 11:00 a.m. – 12:00 p.m.

##### **WSE-04-1A Power plant performance optimization and lifecycle support**

Leverage ABB power plant process application expertise to drive continuous improvement of plant performance. Learn how your power plant can leverage an ABB tailored support program. Specific case studies will be used to illustrate how improvements were achieved in unit ramp rate, NOx levels, overall system stability and more. **NOTE: this workshop is repeated in Session 13.**

#### Session 3: 1:30 p.m. – 2:30 p.m.

#### Session 4: 3:00 p.m. – 4:00 p.m.

##### **WSE-03-1 The new abb.com, with "My ABB" and single sign-on, streamlines your ABB.com Internet experience**

In today's fast-paced world, limited time is available for time-consuming information gathering and procurement processes. The all new abb.com, with single sign-on, can streamline your Internet experience. Learn how your personal "My ABB" page can be customized to the services you need. The "Smart" abb.com provides 24-hour access to products, spare parts, ordering, installed base, remote monitoring and project related information through a standard web browser and secure log-in. We encourage you to join this workshop to see how the smart abb.com can work for you.

#### Session 5: 4:30 p.m. – 5:30 p.m.

##### **WSE-02-1 Excellent service strategies for ABB Control Systems and products**

Learn how ABB embeds service in products to ensure that an excellent service strategy is in place, in order to provide reduced total cost of ownership, enhanced overall equipment effectiveness and increased reliability.

### WEDNESDAY, MARCH 25, 2009

#### Session 6: 8:00 a.m. – 9:00 a.m.

##### **CSE-01-1 Boiler Optimization services: Success at Arkema**

The Boiler Fingerprint Optimization Service delivered in Spring/Summer of 2008, paid for itself in four months and continues to provide savings. Boiler Fingerprints were performed on four boilers at this site. Annual savings estimates are \$200,000 to \$300,000 per year. Energy efficiency improvements will continue to provide value year after year for Arkema.

#### Session 7: 9:30 a.m. – 10:30 a.m.

##### **WSE-07-1 Verify compatibility of your security policies with the functionality of your control systems**

Malicious activity and heightened regulatory environment make development and application of control system security policies necessary. Your policy compatibility with the functionality of your systems is important. ABB can test for compatibility and apply your security policies to your ABB products. This can simplify the process of determining what changes may affect system functionality. Learn more about the validation service robust offering, which provides auditing, testing, remedial actions and compliance maintenance activities.

#### Session 8: 11:00 a.m. – 12:00 p.m.

#### Session 9: 1:30 p.m. – 2:30 p.m.

##### **WSE-01-1 ABB Process Optimization Methodology for any process or industry**

Learn about the methodology behind the ABB Process Optimization Services used to increase production, lower cost and improve Overall Equipment Effectiveness (OEE). A benchmark of current process performance is compared to industry standards, as well as actual operating data to expected capacity. This provides a basis for in-depth evaluation and identification of improvement areas and financial opportunities.

#### Session 10: 3:00 p.m. – 4:00 p.m.

##### **WPP-02-1 Assured performance agreement: Cost effectively match service requirements with ABB capabilities**

An Assured Performance Agreement is a defined process used by ABB to provide the most effective service delivery for our customers. The program is scalable and flexible in order to best match your requirements with ABB capabilities. This session will outline the program deliverables - come see what ABB can offer you today.

**Session 11: 4:30 p.m. – 5:30 p.m.****WSE-05-1 Remote optimization services: Leveraging remote access for delivery of global expertise**

Learn how ABB's subject matter experts from around the world can monitor, diagnose and optimize asset and process performance technologies. Vast amounts of data can be processed through rules engines and expert evaluations to provide valuable assessments and recommendations for optimized performance.

**THURSDAY, MARCH 26, 2009****Session 12: 8:00 a.m. – 9:00 a.m.****WSE-06-1 Security and remote monitoring with System 800xA**

Learn how System 800xA's inherent access control features, network architecture and integrated secure broadband remote access technologies enable reliable and secure remote monitoring. Discover various control system network configurations and secure communications technologies that can be used to make remote monitoring of your System 800xA viable.

**Session 13: 9:30 a.m. – 10:30 a.m.****WSE-04-1B Power plant performance optimization and lifecycle support**

Leverage ABB power plant process application expertise to drive continuous improvement of plant performance. Learn how your power plant can leverage an ABB tailored support program. Specific case studies will be used to illustrate how improvements were achieved in unit ramp rate, NOx levels, overall system stability and more. **NOTE: this workshop is a repeat of Session 2.**

**Session 14: 11:00 a.m. – 12:00 p.m.****Session 15: 1:30 p.m. – 2:30 p.m.****Session 16: 3:00 p.m. – 4:00 p.m.****Session 17: 4:30 p.m. – 5:30 p.m.**

## Reliability Manager or Plant Manager

### TUESDAY, MARCH 24, 2009

#### Session 1: 9:30 a.m. – 10:30 a.m.

##### **CRS-01-1 Enhancing productivity through improved plant reliability: Maintenance outsourcing case study**

This presentation explores how a leading manufacturer partnered with ABB Full Service®, a partnership arrangement that improves plant operations through maintenance excellence, and enhanced focus on its core processes. Through this partnership, the manufacturer has achieved significant process improvements, increased overall equipment effectiveness, and reduced total maintenance costs. Moreover, the partnership was able to transform the mill's paper machine performance, when it jumped from being ranked as the worst paper machine within the company globally to number one. In this presentation, participants will gain insights into how the pulp and paper manufacturer achieved these results.

#### Session 2: 11:00 a.m. – 12:00 p.m.

##### **CRS-03-1 Implementation of Computerized Maintenance Management System: Johnson & Johnson case study**

To position its business processes and operational culture for lean manufacturing, life sciences manufacturer Global Biological Supply Chain (GBSC), LLC (a wholly-owned subsidiary of Johnson & Johnson) undertook the implementation of a world-class Computerized Maintenance Management System (CMMS). GBSC used SAP technology to replace a legacy system that was no longer supporting its manufacturing, reliability, IT or compliance strategies. This presentation demonstrates how GBSC was able to improve productivity by 30 percent, and realize a reoccurring annual savings of \$375k through implementing calibration of test equipment in SAP using PM (Plant Maintenance) and QM (Quality Management) modules.

#### Session 3: 1:30 p.m. – 2:30 p.m.

##### **WRS-03-1 Reliability assessment: A critical step to effective maintenance**

Many organizations overlook and underestimate the financial contribution maintenance can deliver. This presentation provides an overview of how organizations can use a benchmarking process to identify plants' performance strengths, recognize opportunities for improvement and deliver an actionable roadmap of recommendations.

#### Session 4: 3:00 p.m. – 4:00 p.m.

#### Session 5: 4:30 p.m. – 5:30 p.m.

##### **CRS-06-1 Effective reliability focused partnerships help drive sustainable success: Vale Inco case study**

In today's increasingly competitive business environment, challenges and risks associated with investing in plant improvements are higher than ever. For this reason, companies investing in operational improvements may wish to partner with world-class organizations that have expertise in complementary areas that can help accelerate short-term benefits and long-term productivity. This presentation will outline the key elements of a successful partnership, and highlight examples from ABB Full Service, a partnership arrangement that improves plant operations through maintenance excellence, with specific reference to Vale Inco's Newfoundland and Labrador Mine Site.

### WEDNESDAY, MARCH 25, 2009

#### Session 6: 8:00 a.m. – 9:00 a.m.

##### **CRS-04-1 Planning and scheduling help achieve profitability improvements: Rubbermaid case study**

The plant's previous preventive maintenance system was an "un-championed," clerical-driven, non-scheduled, "hit-and-miss" operation. ABB's PM30 Hosted Maintenance Management System was installed in September 1992. Calendar and schedule driven, with leveled task load planning, PM30 has helped maximize machine capacity and run-time, and minimize machine downtime for major repairs. This presentation explores how PM30 coupled with ABB's world-class experience helped Rubbermaid improve processes and profitability.

#### Session 7: 9:30 a.m. – 10:30 a.m.

##### **CRS-05-1 Keys to effectively deploying a Reliability Centered Maintenance strategy**

This presentation will explore the key elements required to effectively deploy a Reliability Centered Maintenance (RCM) strategy that supports operational excellence goals and improves overall financial performance. Run-to-Failure (RTF), Preventive Maintenance (PM), Predictive Maintenance (PdM) and Condition-Based Maintenance (CBM) are all common maintenance practices deployed by industry today. Rarely does a facility follow a single maintenance approach; historically, a blend of both run-to-failure and preventive maintenance tactics have been used. The challenge is to develop a balanced strategy that ensures an asset's performance, availability and life at the lowest cost. A Reliability Centered Maintenance strategy provides this balance.

**Session 8: 11:00 a.m. – 12:00 p.m.****WRS-05-1 Achieving maintenance and reliability excellence for complete plant lifecycle**

Implementing the right reliability and maintenance strategy in the beginning project stages can improve Overall Equipment Effectiveness (OEE) and reduce operational cost. This presentation will outline the most common factors for OEE reduction and how these factors can be overcome. Participants will also gain insight into how implementing the right reliability strategy helped Vale Inco achieve safety and production performance records.

**Session 9: 1:30 p.m. – 2:30 p.m.****CRS-02-1 Driving reliability improvements and successful culture change: CE Zinc case study**

This presentation will explore the challenges and successes ABB and CE Zinc, an electrolytic processing facility located in Quebec, Canada, experienced while implementing Total Plant Reliability®. Participants will also gain insight into how CE Zinc and ABB collaborated to develop a successful strategy to ensure sustainable performance improvements and culture change.

**Session 10: 3:00 p.m. – 4:00 p.m.****CRS-07-1 Measuring maintenance productivity identifies millions in maintenance cost reduction opportunity**

This presentation discusses how ABB Reliability Consulting leveraged work-sampling methodology to measure maintenance productivity on one site and identify more than \$14M potential savings per year. Attendees will learn specific techniques used, hurdles encountered and best-practices developed throughout this project.

**Session 11: 4:30 p.m. – 5:30 p.m.****WMM-01-1 ABB helping Vale Inco create the "mine of the future"**

Using the PEpC model, Vale Inco Ltd. selected ABB early in the process, enabling product features to be fully utilized in the overall mine electrification and automation design. ABB's scope for the Totten Mine project includes a full suite of power and automation solutions, starting at the surface with 69kV substation, mine hoists, motors, drives, MCCs and instrumentation, throughout the mine surface plants and underground. The project is also considering control of underground airflow and quality with a "state of the art" ventilation on-demand system. The entire scope of supply is seamlessly integrated together with ABB's Industrial IT - 800xA automation system.

**THURSDAY, MARCH 26, 2009****Session 12: 8:00 a.m. – 9:00 a.m.****WRS-01-1 Increasing plant production and optimizing energy costs with ABB's Motor Performance Management**

Plant motor energy costs are typically 60 to 70 percent of a plant's electricity bill. This presentation explores how ABB's Motor Performance Management, a partnership where ABB assumes responsibility for managing a customer's electrical motor performance and contractually commits to performance improvements, can improve reliability and reduce total motor energy costs by 2 to 5 percent.

**Session 13: 9:30 a.m. – 10:30 a.m.****WRS-02-1 Reliability and maintenance excellence: Why certain companies find it difficult to achieve**

Most maintenance and reliability professionals have seen some form of the hierarchy of maintenance methodologies, from reactive maintenance to lifecycle management, and recognize the need to scale this ladder. Most would agree that the first step is the most critical, and the one holding the biggest financial opportunity. A reliability management program that provides manufacturers all they need to make this important first step can be gained through a combination of focused assessments, business process improvements and an effective hosted reliability system. This presentation demonstrates the successful application of such an approach in several process and manufacturing industries.

**Session 14: 11:00 a.m. – 12:00 p.m.****WRS-04-1 Overcoming an economic downturn with optimized maintenance management**

In times of economic slowdown, it is always good to remember the survival techniques used last time similar challenges were faced. On a corporate level, the first measure to prepare for a period of reduced demand and tight cash is to curb expenditure wherever possible. On the level of industrial asset management and maintenance, the prime strategy is often to postpone any major investments in plant renewals. With this comes an increased responsibility for the maintenance department. A professional and focused approach helps to live up to this responsibility.

**Session 15: 1:30 p.m. – 2:30 p.m.****Session 16: 3:00 p.m. – 4:00 p.m.****Session 17: 4:30 p.m. – 5:30 p.m.**