

EFFECTIVE SHUTDOWNS AND TURNAROUNDS

DELIVERING HIGH PLANT RELIABILITY AT THE
LOWEST COST THROUGH BEST PRACTICE
MAINTENANCE

29 - 30 March 2004, Novotel, Brisbane

- ✦ Optimise the use of risk-based inspection methodologies
- ✦ Huntsman Chemicals case study: Changing the turn around process
- ✦ Gain a better understanding of corrosion to change process conditions
- ✦ Derive maximum benefit from benchmarking and defining key performance indices for shutdowns
- ✦ Determine the best balance of in-house and contract maintenance staff
- ✦ Onesteel Newcastle case study: Increasing plant throughput from a focus on reliability and planning

Your experienced panel of speakers includes:

Bill Holmes, *Industrial Maintenance Roundtable*, SIRF Roundtables

Robert Bradbury, *Maintenance Strategist*, Silcar

Paul Nicolo, *Turnaround Manager*, Huntsman Chemicals

Peter Morone, *Maintenance Manager*, Bluescope Steel

Ian Willcox, *Maintenance Manager*, Hazelwood Power Station

Peter Johnson, *Maintenance Supervisor*, Stawell Gold Mine

David Keen, *Director*, Plant Reliability Solutions

Graham O'Byrne, *Business Manager*, Ionik

Peter Oliver, *Manager Asset Management*, Gold Coast Water

PLUS

PRACTICAL
WORKSHOP

Achieving Effective Turnaround Through Good
Inspection Planning and Control

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29 - 30 March 2004, Novotel, Brisbane

EFFECTIVE SHUTDOWNS AND TURNAROUNDS

Dear Executive,

Planning and managing shutdowns and turnarounds in the plant environment is a complex and demanding function. If turnarounds are not properly planned, managed and controlled, then companies run the risks of serious budget overruns and costly schedule delays.

Bringing together many of the key players in the field of maintenance, this leading industry forum will provide you with a thorough understanding of the fundamentals of effective plant maintenance. Meet fellow professionals, interact with speakers and take advantage of an intensive and broad programme to gain a complete understanding of the emerging industry trends, best practice maintenance approaches and extensive hands-on experience.

This event is bringing together industry leaders who have tried and tested preventative maintenance strategies to develop best practices to successfully manage their shutdowns.

KEY PRESENTATIONS INCLUDE:

- * Optimising the synergy between risk based inspection reviews and asset life planning
- * Examining the interaction between adjudication and other forms of dispute resolution
- * Managing and mitigating risk in construction contracts
- * Overcoming the challenges of obtaining insurance in the current economic climate
- * Examining infrastructure developments in Australia and overseas
- * Understanding rights and liabilities in construction claims
- * Mastering Australian standard form contracts
- * Evaluating different options and trends in funding major projects

PLUS: HALF DAY INTERACTIVE WORKSHOP – BOOKABLE SEPARATELY
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Yours sincerely



Lucy Geraghty
Conference Manager
IIR Conferences

DELIVERING HIGH PLANT RELIABILITY

CONFERENCE DAY ONE MONDAY 29th MARCH 2004

8.30 Registration & coffee

9.00 Opening remarks from the chair

9.10 OPENING ADDRESS: HIGH RELIABILITY AT LOW COST

- * Examining the common themes in organisations that achieve high reliability at low cost
- * Highlighting the importance of defect elimination
- * How to compare practices and develop an improvement strategy
- * Identifying approaches that have been shown to work

Bill Holmes, *Industrial Maintenance Roundtable*, **SIRF Roundtables**

9.55 HUNTSMAN CHEMICAL CASE STUDY

Huntsman Chemicals are in the process of moving from large turnarounds to smaller, more frequent turnarounds. Paul Nicolo, who heads up the turnaround team at Huntsman, will outline the business drivers behind this decision and detail how the scheme has worked in practice.

- * Examining key business benefits for Huntsman in changing their turnaround process
- * Defining roles and responsibilities to work effectively as a team
- * Managing the turnaround as an ongoing work process
- * Ensuring the work process reflects the current needs of the changing business environment
- * Establishing the long range schedule and budgets for turnarounds and integrating them into the overall corporate plan

Paul Nicolo, *Turnaround Manager*, **Huntsman Chemicals**

10.40 Morning tea

11.00 OPTIMISING THE SYNERGY BETWEEN RISK BASED INSPECTION REVIEWS AND ASSET LIFE PLANNING IN ORDER TO REDUCE YOUR SHUTDOWN SCOPE AND COST

Risk based inspection (RBI) methodologies were originally developed to aid in the management of critical high temperature and pressurised components. These strategies have now been successfully applied to infrastructure where the damage mechanisms involve corrosion and wear processes.

- * To what extent should RBI be an integral part of your asset management strategy?
- * How to achieve a long term investment profile for your asset intensive plant
- * Streamlining your budget process and underpinning capital sanctioning in order to achieve greater cost efficiency
- * Utilising RBI as a focus and cost effective approach to pressure equipment examination

David Keen, *Managing Director*, **Plant Reliability Solutions**

11.45 MAINTAINING A SAFE WORKPLACE – EXAMINING OH & S ISSUES IN SHUTDOWNS & TURNAROUNDS

- * Managing health & safety during a shutdown
- * Examining current developments in safety best practice for shutdowns
- * Understanding the real impact of unsafe work practices
- * Measuring and monitoring the direct effects of improved safety practices
- * Communicating health & safety to contractors

Bronwyn Atkins, *National Occupational Health & Safety Office*

12.30 Lunch

1.40 UNDERSTANDING CORROSION TO OPTIMISE PLANT LIFE & PERFORMANCE

- * Examining corrosion mechanisms
- * Understanding what to look for – targeted inspection programs (such as RBI)
- * Knowledge of asset status provides confidence
- * Isolating the root cause and taking the appropriate action

Graham O'Byrne, *Business Manager*, & **Paul Plater**, *Technical Manager*, **Ionik Melbourne**

2.25 OPTIMISING THE SHUTDOWN WORKSCOPE: DEVELOPING AND NEGOTIATING A SCOPE OF WORK STRATEGY

- * Contract review as part of the planning stage
- * Scope input
- * Defining the constraints - limiting scope & cut off dates
- * Prioritising the proposed work
- * Creating efficient shift and crew schedules
- * Developing and controlling work lists
- * Managing variations to the scope of work during the shutdown

Peter Oliver, *Manager Asset Management, Gold Coast Water*

3.10 Afternoon tea

3.30 DERIVING MAXIMUM BENEFIT FROM BENCHMARKING AND DEFINING KEY PERFORMANCE INDICES FOR SHUTDOWNS TO MAINTAIN COMPETITIVE ADVANTAGE

- * Reviewing the key activities to achieve KPIs
- * Discovering how your organisation compares to industry best practice by identifying performance indices
- * Understanding how to use benchmarking data for real returns on maintenance efficiency
- * Identifying specific actions that will influence KPIs
 - Project management practices, tools and procedures
 - Safety & OH&S measures
 - Maintenance and inspection tools and practices

Alan Bonney, *Manager Business Improvement, BHP Coal*

4.15 ALIGNING MAINTENANCE WITH CORPORATE STRATEGY

- * Linking shutdown strategies to key business goals
- * Understanding how business goals will affect maintenance requirements
- * Highlighting the importance and value of planning to manage the wider impact of shutdowns
- * Managing relationships with authorities and legislative requirements

Bob Schulz, *Maintenance Manager, Visy*

5:00 Chairman's closing remarks

5:10 End of conference day one

Join us for networking drinks – the ideal opportunity to discuss issues and network with other delegates

CONFERENCE DAY TWO

TUESDAY 30th MARCH 2004

9.00 Opening remarks from the chair

9.10 CASE STUDY: INCREASED PLANT THROUGHPUT FROM A FOCUS ON RELIABILITY AND PLANNING AT ONESTEEL NEWCASTLE

- * Highlighting benefits that have come from improved plant performance
- * Identifying steps taken to improve reliability
- * Eliminating defects in the plant
- * Increasing the emphasis on improved planning and scheduling

Representative, *Onesteel Newcastle*

9.55 ASSESSING CURRENT CHALLENGES IN SHUTDOWN MANAGEMENT

- * Identifying the qualities of successful shutdowns
- * Defining & communicating project roles: who has overall responsibility?
- * Examining good project management concepts
- * Highlighting key trends in improving shutdown planning
- * Assessing reasons for poor shutdown performance

Ian Willcox, *Maintenance Manager, Hazelwood Power Station*

10.40 Morning tea

11.00 DETERMINING THE BEST BALANCE OF IN-HOUSE AND CONTRACT MAINTENANCE STAFF

- * Taking into account all considerations when examining labour costs
- * Containing and managing supply and equipment costs
- * Understanding how to reduce administration time
- * Implementing an ongoing training programme for peak efficiency
- * Maintaining quality control
- * Keeping abreast of technological advances and more efficient strategies

Peter Johnson, *Maintenance Supervisor, Stanwell Gold Mine*

SH BEST PRACTICE MAINTENANCE

11.45 APPLYING RISK MANAGEMENT TO IMPROVE YOUR TURNAROUNDS

- * Examining the benefits of risk management applied to turnarounds
- * Identifying who you should involve in the process
- * Identification and assessment of risks
- * Compiling a risk register and risk mapping

- * Managing the risk register
- * Application of more advanced methods

Dale McKenzie, *Project Manager*, **Loy Yang Power**

12.30 Close of conference

Lunch will be provided for delegates attending the workshop

WORKSHOP 1.30-5.00pm Tuesday 30th March 2004 Achieving Effective Turnaround Through Good Inspection Planning and Control

The format of the workshop is that of an interactive session in which direct and pertinent questions can be asked and answered. The limited numbers accepted onto the workshop ensure that you experience an intensive session of information intake and communication.

Turnaround is one of the most important events in any plant. All successful turnarounds begin with good planning, and inspection planning must start long before the actual shutdown.

Inspection planning starts with consolidating the turnaround work list based on on-stream findings, past experiences and regulatory requirements. Besides ensuring regulatory compliance to authority legislation, inspection also complements efforts by the maintenance team to ensure that the turnarounds are carried out effectively in order to maximise return on investment. Resources such as specialist manpower, tools and consumables should be maximised as a large amount of the maintenance budget is spent during turnaround. Inspection plays a complementary role in the success of any turnaround.

This workshop will guide maintenance and operation professionals in recognising and establishing some of the best practice criteria for effective turnarounds. You will also discuss the control of inspection during turnarounds.

- * Reviewing and justifying work list and inspection requirements
- * Establishing a communication system between maintenance execution parties and inspection
- * Summarising the inspection findings to circulate recommendations for maintenance and plant management
- * Analysing the common problems of turnarounds

Workshop Leader: Mike Runge, *Shared Services Manager*,
Contract Resources

Contract Resources has the expertise and experience to provide overall project management, turnaround planning, coordination and supervision. We have successfully managed the some of the largest turnarounds in New Zealand, Australia, Asia, Latin America and the Middle East.

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EFFECTIVE SHUTDOWNS AND TURNAROUNDS

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For all your travel & accommodation requirements please contact Melissa Last at Bay Travel on 02 9362 2733 or email melissa@baytravel.com.au and quote the name of the course.

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