

# The Critical Plant Manager

*'We understand your need to effectively manage your assets'*



## Newsletter

December 2007

A newsletter from JAHCon Physical Asset Management Pty. Ltd. to keep our current and potential clients informed of our ongoing activities and to raise awareness of how JAHCon may be able to help your organisation meet its Asset Management needs. This newsletter also provides a forum for sharing Asset Management ideas and experiences.

## Recent Projects

Current or recent projects undertaken by JAHCon include:

Maintenance upgrade for Oil refinery assets including Criticality analysis, Maintenance System Development, Spare parts Assessments and Root Cause Analysis workshops.

A RAMS study of a new plant to determine if project goals would be achieved, identify the labour and spare parts needs of the plant and the impact of planning and scheduling delays on plant Availability.

## Introduction

This newsletter provides Asset Management information on upcoming events which may be of interest to the Asset Management community. Events such as training courses and workshops will be announced and every effort will be made to share information and experiences with clients throughout Australia and New Zealand.

While much of what is undertaken for a particular client rightly remains confidential, there is also a significant amount of potentially useful information that can be shared between clients without compromising client confidentiality. This information can range from general information in the Asset Management area, information generated in a public forum or information released by the 'owner' into the public domain.

Where appropriate, JAHCon strives to bring selected parts of this 'public domain' information together in our newsletters and on the JAHCon website, with the aim of sharing as much of this information as possible. Experienced Asset Management specialists will no doubt find much of this information familiar, however newcomers to the field may find it useful. Even the most experienced can benefit from the insight of others and often the fresh eyes of someone setting out on this journey can cause us to ask 'why didn't I think of that'.

If you would like to contribute to the discussion please do so by sending your contribution to JAHCon and the information provided will be included in future newsletters or posted on the JAHCon web site along with the contact details of the contributor where permission is granted to do so.

## Training News

Two new courses are now available, created specifically for the water industry.

The first course provides Maintenance Management training for Waste Water and Water Treatment plant operators to raise awareness of the impact operating practices can have on plant Reliability, Availability and costs. This course is also relevant to maintenance staff and to lower and middle managers.

The second course presents basic engineering concepts including drives, electrical systems, lubrication concepts, fastener design and use etc. to increase the operators understanding of the machinery he or she is in charge of. This course is not intended to make fitters out of operators simply to improve their understanding of equipment, and help them to understand the specific issues that can compromise plant performance.

# Handbook - 'The Foundations of Asset Management'

JAHCon now has available a new handbook called 'The Foundations of Asset Management', which will assist those new to the field of Asset Management. The handbook outlines the important considerations in any practical implementation of this management approach. There are several clearly identifiable 'stages' within the full range of AM which include - recognising the need, providing a suitable asset, operation and maintenance, continuous improvement and decommissioning and disposal. Only when an organisation fully implements these major components (as well as a host of supporting issues) can the organisation say it is applying Asset Management. This handbook provides an overview of these and many other issues forming the basis of modern Asset Management practices. Contact JAHCon for pricing and to order a copy of this useful handbook.

## Spare Parts Analysis using OSL

JAHCon has available, an entry level spare parts analysis software package called OSL. This package provides smaller sites with a reasonably priced tool to support spare parts decision making within a structured maintenance system. OSL uses information readily available from on-site sources and can generate an audit trail for these decisions.

OSL provides individuals with the means to objectively assess whether to hold a spare part, to recommend appropriate MAX and MIN levels and provide uniformity of approach between individuals and across multiple sites.

Use of OSL will allow trades staff to make initial assessments after minimal training, which can then be reviewed, accepted or rejected as appropriate by authorised engineering staff. The objective and repeatable nature of the analysis takes the subjectivity and guesswork out of spare parts assessments.

Several commercially available packages are available internationally which assist in the maintenance spare parts decision process, however these tend to attract a considerable entry cost which, in many cases, is an effective barrier to companies wishing to carry out spare parts analysis.

OSL helps to overcome this barrier by providing end users with a low cost decision support tool for maintenance spare parts assessment.

## Asset Management Forum

A forum was held on October 16<sup>th</sup> and 17<sup>th</sup> under the auspices of the Centre for Integrated Engineering Asset Management (CIEAM) a CRC based at Queensland University of Technology in Brisbane, Queensland.

The forum was called 'Engineering Asset Management 2020' with the aim of "...developing a roadmap for Engineering Asset Management to 2020".

The forum made use of a technology road-mapping technique promoted by the University of Cambridge's Institute for Manufacturing (IfM).

Local and Cambridge-based facilitators were used to run the forum with the focus being on four major areas of interest - defence, utilities, manufacturing/process and transport and infrastructure. Break-out groups were assigned to each area with these groups developing roadmaps for 'drivers', 'applications' and 'technologies' in their respective areas.

The break-out groups were brought together regularly to share their results and a final combined session helped to consolidate the views of the separate groups by allowing all participants to weight the importance of different areas through voting.

For more information on the forum contact the CIEAM at QUT on Phone: +61 7 31381471.

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