

Industrial Maintenance Roundtable

The Works, Park Terrace, Bowden

April 5 2006

RELIABILITY TECHNIQUES

Agenda

9:00 am *Arrival tea & coffee*

9:15 am *Welcome and introductions*

9:30 am *General Business of SIRF Roundtables*

- CIWG on Condition Monitoring Techniques, April 26 Zinifex;
- Condition Monitoring National forum, Sydney 8th August 2006;
- RCA Courses;
- IMRt events and programs interstate;
- Proposals for Future Roundtable Meetings: Dates, topics, sites
- Proposals for Common Interest Working Group topics, dates, sites
- Specialist Workshops: Ron Moore Reliability Leadership, Upper Spencer Gulf May 22nd & 23rd 2006

9:45 am *Santos*

Santos has dedicated \$2.5 million to a PM optimisation program to improve reliability. In accordance with RCM principles, condition based monitoring is the preferred maintenance strategy and is carried out where this is appropriate. The company is 75% of the way through this review.

As part of the process, teams of operators, maintainers and engineers have reviewed the maintenance tasks currently carried out on critical machines and their mode of operation. The team reviews the failure mode and decides what should be done to manage the consequence of failure.

A speaker from Santos will discuss progress.

10:30 am *Morning Tea*

10:45 am *SA Water – Jim Braendler*

SA Water is reviewing its approach to maintenance of its assets. It started the process using RCM but found the process too expensive and time consuming and has modified its approach to use PMO based on RCM.

Jim will discuss their project, the reasons for the change and the outcomes being achieved.

11:30 am ***Chee Lai Origin Energy***

Origin energy operates a number of power stations around Australia and uses condition monitoring extensively to monitor the performance of critical plant items.

Chee will discuss the use of condition monitoring to highlight and overcome a significant problem on a generator at the Quarantine Power Station

12:15 pm ***Lunch - General networking and discussion***

1:15 pm ***ElectraNet***

ElectraNet distributes high voltage power from the power stations to ETSA Utilities around the state. It is faced with the need to prolong the life of a number of ageing assets.

A speaker from ElectraNet will discuss the specialised maintenance techniques that it is using to do this.

2:00 pm ***Breakout Discussion on Reliability techniques***

2:45 ***Feedback Discussion***

3:15 pm ***Close***

PLANT TOUR

To complete the Industrial Maintenance Roundtable we have scheduled a very interesting plant tour of the Bolivar Treatment Works for Thursday April 6. This will commence at 9:00 AM and will be finished by 11:30. Please set aside time for this visit. Details are given at the end of the Agenda.

Parking Instructions for The Works:

The Works is located at the northern end of Clipsal's plant and is on the corner of Park Terrace and Fifth Avenue Bowden. Those of you who have long memories may remember it as Noel Teasdale's Park View Hotel.

Parking is available in the car park on the northern side of The Works.

RELIABILITY TECHNIQUES

Faxback

RSVP. If you have not previously indicated your intention to attend this Roundtable please fax this form to (08) 8272 3416 or return it by email as soon as possible to notify us of the names of people from your company who will be attending the Industrial Maintenance Roundtable on April 5 2006

The following people fromwill attend.
Please indicate by ticking the box attendance at the Roundtable (Rt) and the site visit (Site)

Name	Telephone	email	Diet	Rt	Site

PLANT TOUR - BOLIVAR TREATMENT WORKS

We have scheduled a plant tour of the Bolivar Water Treatment plant for Thursday 6th April as part of the Industrial Maintenance Roundtable. This will be a very interesting plant to visit and United Water which manages the plant for SA Water has an interesting story to tell about the way in which it manages the asset on behalf of the owners.

The plant is a combination of the original plant that was built in the 1960's and the 2000 update. During the tour we will see:

- Waste gas compressors;
- A 3.5 MW gas turbine that uses waste process gas for power generation;
- Two very large pumping stations that are each capable of pumping 500 mega litres per day; and
- Four 900 KW blowers that are used to treat the waste water.

The main issue for United Water is how to strike the appropriate balance between maintenance of ageing assets and investment in new plant and equipment that have long lives. A major concern for them how to estimate the end of life for an ageing but effective piece of equipment.

Risk management has played a significant part in developing maintenance strategies. The maintenance regimes in the new plant are based on RCM. Because plant must be available 100% of the time there is heavy reliance on redundancy. United Water management will discuss their maintenance strategies prior to the plant tour.

The dress requirements are not onerous for the site visit. Safety glasses and hard hats are not required.

There will be some walking so a sturdy pair of closed shoes will be required but steel caps are not essential. For the ladies, there are grid mesh walkways, so shoe heels need to be appropriate. Depending on the weather and people's susceptibility to the sun, wearing hats and sunscreen may be advisable.

There is strictly no eating or drinking on the plant

