



AHUG 2013

Australasian HRSG Users Group
Conference and Workshops

3 - 5 December 2013 - Brisbane



Conference Agenda

Tuesday 3rd December: Conference

7:15	Registration - Arrival Tea & Coffee
8:00	<i>Opening remarks</i> Barry Dooley and Robert Anderson
8:15	<i>Open floor discussion and Questions</i>
9:00	<i>Remote digital video inspection of HRSGs</i> Ash Peters, Quest Integrity Group New Zealand
9:45	Morning tea
10:15	<i>Presentations on Plant updates:</i> <i>Findings from an investigation into the efficacy of the Huntly HRSG SH and RH drains</i> Kobus Kok, Genesis Huntly <i>HRSG Preheater/Stack post combustion products - standby and layup considerations to minimise back end corrosion</i> David Addison, Thermal Chemistry
10:45	<i>Open floor discussion and Questions</i>
11:30	<i>Short presentation</i> <i>Expansion joint technology in CCGT plants</i> Jake Waterhouse, DeKomte <i>An Innovative approach for HRSG cooling water treatment towards ZLD and chemical reduction</i> Ilan Sosnovitch, UET
12:00	Working lunch within exhibition
1:15	<i>Presentations on Plant updates:</i> <i>Overcoming issues with corrosion product monitoring at Newgen Power Kwinana</i> Hayden Henderson, ERM Power <i>High Temperature Spray Nozzles for Attemperators</i> Ory Selzer, CCI Valve
1:45	<i>Open floor discussion and Questions</i>
2:15	<i>Preservation strategy for TCC</i> Anita Zunker, Pressure Equipment Integrity
3:00	Afternoon tea
3:30	<i>HRSG Borescope inspection: strategies and results</i> Lester Stanley, HRST
4:00	<i>It's a 3D world: The latest BIM (Building Information Modeling) technology and HRSGs today</i> Malcolm Foort, Zuuse
4:15	<i>Open floor discussion and Questions</i>
5:00 - 7:00	Networking drinks within Exhibition

Wednesday 4th December: Conference

7:30	Registration - Arrival Tea & Coffee
8:00	<i>Open floor discussion and Questions</i>
9:00	<i>HRSG Remnant Life Assessment</i> Dan Nguyen, Alstom
9:45	Morning tea
10:15	<i>Short presentations on plant updates</i> <i>Chemistry updates at Swanbank: wet storage</i> Scott Drysdale, Stanwell Corporation, Swanbank <i>Mechanical updates at Swanbank: HP by-pass valve</i> John Blake, Stanwell Corporation, Swanbank
10:45	<i>Open floor discussion and Questions</i>
11:15	<i>Steam cation conductivity (aka conductivity after cation exchange) - in the HRSG plant</i> Michael Caravaggio, Integrated Chemistry Solutions
12:00	Working Lunch within Exhibition
1:15	<i>Short presentations on plant updates</i> <i>HRSG major repair and retrofit examples</i> Lester Stanley, HRST <i>Impact of steam flow timing on reheater thermal transients</i> Robert Anderson, Competitive Power Resources
1:45	<i>Open floor discussion and Questions</i>
2:15	<i>Prioritised inspection at Kwinana Co-generation</i> Chris Jones, Quest Integrity Australia
3:00	Afternoon tea
3:30	<i>Presentations on plant updates</i> <i>P91 - 304H Dissimilar metal weld inspection findings</i> Anita Zunker, Pressure Equipment Integrity <i>The latest IAPWS guidance documents for combined cycle plants: steam purity and iron monitoring</i> Barry Dooley, Structural Integrity
4:00	<i>Open floor discussion and Questions</i>
5:00	Day 2 concludes

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Thursday 5th December: Workshop Agenda

WORKSHOP AGENDA

7:15 am Registration and Arrival tea & coffee

Workshop 1: Managing deposits in HRSG HP evaporators

This workshop will first provide an overview of the HRSG Tube Failure (HTF) mechanisms which are influenced by deposits in the HP Evaporators. The need to remove samples will be discussed along with the optimum locations in HGP and VGP HRSGs. The analysis processes developed to characterize the internal deposits and oxides will provide an indication of the morphologies which are very dependent on the chemistries used in the HRSGs. A deposition map will be presented which represents the results of analyses of over 60 HRSG plants worldwide. The second part of the workshop will provide the general principles for chemical cleaning of deposits and indigenous oxides in heat exchangers tubing. Decision making on the solvents and inhibitors will be discussed as well as the HRSG chemical cleaning processes, examples and case studies. The final part of the workshop will confirm the optimum HRSG chemistry to avoid deposits.

8:00 - 12.00pm **Barry Dooley, Structural Integrity,
Colin Gwynne, Aurecon and Des McEvoy, Ecolab**

9:45am **Morning Tea**

Workshop continues

12:00 Working lunch within exhibition

Workshop 2: Inspecting HRSGs

This workshop will provide details on inspecting HRSGs and will provide the key features of an effective HRSG inspection and assessment program. Initial discussion will focus on collecting operating data and how to analyze this for developing a proactive assessment plan. Details will provide the highlights of running an HRSG walk down which includes inspection of the gas-touched components and the water/steam side components such as the steam drums and deaerators. Discussion will then move to selecting elevated-risk components for NDE and sample removal and analysis.

1:00 - 5.00pm **Scott Wambeke, Structural Integrity**

2:45 **Afternoon Tea**

5:00pm Conference concludes

Conference Committee

AHUG 2013 is chaired by Barry Dooley, Structural Integrity Associates with the assistance of a Steering Committee consisting of:

- » Bob Anderson, Competitive Power Resources
- » John Blake, Stanwell Corporation
- » Andy Sibley, Contact Energy
- » Lester Stanley, HRST
- » David Addison, Thermal Chemistry
- » Des McInnes, Stanwell Corporation

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