

AHUG 2016

Australasian HRSG Users Group Conference and Workshops



15 - 17 November 2016 - Sydney

Program

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Day 1 – Tue	sday, 15th November	14:35 to 15:00	General Open Floor Discussion and Questions	
7:15	Registration	15:00 to 15:30	Afternoon coffee/tea within exhibits	
8:00 to 8:10	Opening Remarks	15:30 to 15:55		
	B. Dooley Structural Integrity, UK and		L. Mosele and J. Spencer, NewGen	
	R. Anderson Competitive Power		Kwinana Power Station, Western	
	Resources, USA		Australia	
8:10 to 8:40	General Open Floor Discussion and Questions	15:55 to 16:20	Yarnima Power Station – A New Power in the Pilbara	
8:40 to 9:05	Achieving and Managing Extended		M. Watkinson, TW Power Services,	
	Internal Inspection Intervals on		Bunbury, Western Australia, Australia	
	Pressure Equipment		and A. Pandey, Senior Power Specialist	
	M. Utley and M. Young, Contact Energy, New Zealand		 Yarmina Power Station, BHP Billiton, Western Australia, Australia 	
9:05 to 9:30	Increase Efficiency, Decrease Costs	16:20 to 17:00	General Open Floor Discussion	
9.03 to 9.30	and Increase Megawatts	10.20 to 17.00	and Questions	
	M. Peterson, Precision Iceblast, USA	17:00 to 18:30	Day 1 Concludes	
9:30 to 10:00	Morning coffee/tea within exhibits		Networking, Social Gathering	
10:00 to 10:20	Presentations on Plant Updates		and Drinks within Exhibits	
	Return to Service Requirements and	Day 2 Was	dnosday 16th November	
	Planning after 3 Years Storage	•	dnesday, 16th November	
	J. Blake and M. Sands, Stanwell	8:00 to 8:40	General Open Floor Discussion and Questions	
	Corporation, Queensland, Australia	8:40 to 9:05	HRSG Designers Meeting	
10:20 to 10:45	Expansion Joint Technology:	0.40 to 2.03	the Challenge	
	Penetration and Casing Seals for HRSG		J. Roberts, R. Incampo and J. Reddel,	
10.45 to 11.10	J. Tarrant, Dekomte, UK		Jacobs, Australia	
10:45 to 11:10	General Open Floor Discussion and Questions	9:05 to 9:30	ASME Code Issues Relating	
11:10 to 11:35	The Latest on Steam and Water		to Advanced Materials	
11.10 to 11.55	Sampling Systems		J. Henry, USA	
	J. Powalisz, Sentry Equipment Corp, USA	9:30 to 10:00	Morning coffee/tea within exhibits	
11:35 to 12:00	Controlling Oxygen on New HRSGs	10:00 to 10:40	Presentations on Updates	
	T. Hill, Diamantina Power Station,		Update on Cycle Chemistry Control and FAC	
	Queensland, Australia		B. Dooley, Structural Integrity, UK	
12:00 to 13:20	Working Lunch within Exhibits		Update on Thermal Assessments	
13:20 to 13:45	Applying Power Station Chemistry		R. Anderson, Competitive Power	
	to a Risk Based Inspection Programme		Resources, USA	
42.45. 44.40	H. Henderson, Petrofac, Australia	10:40 to 11:10	General Open Floor Discussion	
13:45 to 14:10	Kaleidoscope of Cycle Chemistry Activities at Tallawarra		and Questions	
	I. Currie, Tallawarra, Australia	11:10 to 11:35	Tallawarra's Experience with P91	
14:10 to 14:35	Presentations on Plant Updates		S. Gupta, Tallawarra, NSW, Australia	
11.10 10 17.33	Update on HP Bypass	11:35 to 12:00	Corrosion Monitoring using an On-line	
	A. McKay and P. Wessels, Origin, Australia		Analyzer in HRSGs T. Maatta, MEP Instruments, Gladesville,	
	Short Update		NSW, Australia	
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12:00 to 13:20	Working Lunch within exhibits
13:20 to 13:45	Presentations on Plant Activities Outage Activities at Contact Energy's Te Rapa Plant R. Meijer, Contact Energy, New Zealand
13:45 to 14:15	General Open Floor Discussion and Questions
14:15 to 14:40	Presentations on Plant Updates - Ultrasonic Control of SH/RH Drains R. Anderson, Competitive Power Resources
14:40 to 15:05	How to apply IAPWS Guidelines for Effective Cycle Chemistry D. Addison, Thermal Chemistry, New Zealand
15:05 to 15:35	Afternoon coffee/tea within exhibits
15:35 to 16:00	The Latest IAPWS Updates B. Dooley, Structural Integrity, UK, and G. Joy, Retired Australia (Chair of AUSAPWS)
16:00 to 16:25	Outdated Rituals versus Modern Water-Steam Sampling and Analysis Design M. Sigrist, Swan, Switzerland
16:25 to 17:00	General Open Floor Discussion and Questions
17:00	Day 2 Concludes

Day 3 – Thursday, 17th November 2016

8:00 to 10:00 **Workshop 1:**

Attemperator Issues

C. Jones and C. Thomas, Quest Integrity, Australia and New Zealand *Metallurgical investigation, inspection,*

thermocouple and inspection monitoring, stress analysis and life assessment applied to damaged attemperators. This workshop will present, to the extent of investigations applied, evidence and conclusions relating to each case. Where commonality is found the risk of problems arising from malfunctioning attemperators and/or the realisation of damaging transients will be discussed.

10:00 to 10:30 Morning coffee/tea within exhibits

10:30 to 12:30 Workshop 2:

Preparation of a Covered Pipe System Management Plan in Combined Cycle Plants.

D. Ross and D. Charman from ALS, Australia

This workshop will present information on covered pipe systems which are common throughout the power and process industries. Many of these pipe systems are critical and involve high risks to people and plant if they are not managed carefully.

The ASME codes refer to insulated pipes as Covered Pipe Systems (CPS) in B31.1 (Power) and B31.3 (Process) and offers a detailed methodology for management. AS/NZS 3788 offers Appendix I for Inspection of Piping. This workshop will introduce the code requirements of ASME for CPS, identify differences with AS/NZS 3788, and apply this to some examples from combined cycle plants. To further support the need for a CPS management plan, the issues associated with Grade 91 pipe material will be discussed.

12:30 to 14:00 Working Lunch within exhibits

14:00 – 16:00 **Workshop 3:**

Anatomy of HRSG Thermal Surveys R. Anderson, Competitive Power

Resources, USA

When thermal transients beyond those anticipated by the HRSG designer occur irreversible thermal fatigue damage occurs in some pressure parts, resulting in premature failure. These transients can be identified by informed review of normal plant operating data and can often be eliminated, or mitigated, by changes to operating procedures. This workshop will describe a methodology by which to identify the most common undesirable transients and present case studies from actual thermal surveys.

16:30 Day 3 Concludes