

Performance of Welds in the Energy Sector

WEDNESDAY MORNING, JULY 22

TIME (PT)	TOPIC	PRESENTER
8:00 a.m.	Introductions, goals and objectives of workshop	<i>Organizers</i>
8:30 a.m.	Failures of DMW in modern HRSGs	<i>J. Siefert, EPRI</i>
8:50 a.m.	In-service fatigue cracking at welds in combined cycle power plants	<i>I. Perrin, Triaxis</i>
9:10 a.m.	Failures in hardfaced valve seats and discs	<i>J. Lucas, SRP</i>
9:30 a.m.	Panel discussion	
10:00 a.m.	Break	
10:30 a.m.	Recent experience with long seam weld inspection and damage	<i>C. McDonald, SIA</i>
10:50 a.m.	Widespread issues with tube attachment welds	<i>M. Gagliano, EPRI</i>
11:10 a.m.	Stress relaxation cracking: Lessons from weld failures for future practice	<i>D. Winful, TWI</i>
11:30 a.m.	Panel discussion	
12:00 p.m.	Adjourn	

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THURSDAY JULY 23

TIME (PT)	TOPIC	PRESENTER
8:00 a.m.	Day 2 welcome	Organizers
8:10 a.m.	Historical overview of stress corrosion cracking in safety critical weldments in nuclear power plants	S. McCracken, EPRI
8:30 a.m.	Observations and historical perspective of small-bore piping failures	S. Tate, EPRI
8:50 a.m.	Challenges associated with IASCC irradiated boiling water reactor internals	W. Lunceford, J. Tatman, EPRI
9:10 a.m.	Weldability challenges of high-chromium nickel-base filler metals for structural weld overlays	D. Barborak, EPRI
9:30 a.m.	Panel discussion	
10:00 a.m.	Break	
10:30 a.m.	Improving weld performance through industry cross-sector knowledge sharing: Insights from an integrated operator's failure experience	M. Dalal, Shell
10:50 a.m.	Welding on Carburized Ethylene Furnace Tubes Case Study	A. Thigpen, Becht
11:10 a.m.	Case studies on SS347 liquation cracking and preheat deficiencies in low temperature environments	S. Soltaninia, Fluor
11:30 a.m.	Challenges repair welding strain aged carbon steel: Case studies on an often-overlooked mechanism	C. Wozniak, Marathon
12:00 p.m.	Lunch	
1:00 p.m.	Understanding weld failures in fabrication and construction	M. Denault
1:20 p.m.	Failure analysis of coupled cracking and nitrogen-induced porosity in a SAW pipeline seam weld	A. Acuna, Lincoln Electric
1:40 p.m.	Five costly errors when welding duplex stainless steels (and how to avoid them)	G. Coates, NiDi
2:00 p.m.	Panel discussion	
2:30 p.m.	Break	

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TIME (PT)	TOPIC	PRESENTER
3:00 p.m.	Welding failure of an oil well threaded connection during preheating for seal welding	<i>B. Mohr, EWI</i>
3:20 p.m.	Digital tools for failure analysis documentation and communication	<i>G. Atkins, Bechtel</i>
3:40 p.m.	Failure analysis of brazed aluminum heat exchangers (BAHX) in a process plant and their maintenance procedures	<i>C. Ribeiro, Petrobras</i>
4:00 p.m.	Avoiding girth weld failures from strength undermatching and HAZ softening	<i>K. Lee, DNV</i>
4:20 p.m.	Panel discussion	
4:50 p.m.	Proceedings wrap-up	<i>Organizers</i>
5:00 p.m.	Adjourn	