Meeting Minutes

Subject: EPC Rotating Equipment Subcommittee Meeting

Minutes Published: October 23,2014

Meeting Held: October 23, 2014

Attendees:

Mike Fultz - KBR	Dan Jones - Technip	
Brian Pratka – Man Diesel & Turbo		
Terryl Matthews - Shell		
Kevin Kisor – Man Diesel & Turbo		
Bill Swinton – Dresser Rand		

Item			Action Required		
No.	Report	Ву	Date		
	The following approved abstracts should be posted to the CONFEX site.				
	 Consideration of trapped volume of steam and effect of response time in large steam turbines. Industry specs versus common sense approach. 				
	Fluid Injection Systems and Coatings to Combat Fouling and Corrosion in Cracked Gas Compressors	PT			
	3. Rerate overview, Aerodynamic, Mechanical, Efficiency considerations, trends.				
	4. Refrigeration Compressor Recycle Quench Control	PT			
	Additional ideas for papers are as follows. Please email abstract statements to Peter prior to next scheduled meeting. Added one new topic. (Added monitors to push papers)	PT PT			
	Dry Gas Seal and Control System Approach to Meet Today's Turbomachinery Reliability Expectation"				
	Joe Delrahim				
	John Crane				
1	Introduction of Dry Gas Seals nearly 30 years ago revolutionized the concept of compressor sealing technology. As the oil and gas marketplace continues to respond to the demand of increased production, there is little argument that compressor reliability and uninterrupted operation are crucial to plant operation. The call for more production requires an increase in speed, pressure and compressor size. These requirements are taxing on existing designs as they are pushing compressors to operate beyond their designed application envelope.				
	Manufacturers are responding by developing new Dry Gas Seals and system designs to meet these performance requirements. Demands and regulations to reduce emissions and improve compressor reliability have encouraged users to convert their wet compressor sealing devices to a Dry Gas Seal design. As a result, API is considering updating current compressor sealing standards and through a task force is developing new API 692 DGS standards.				
	This paper describes the evolution of Dry Gas Seals (DGS) and related compressor systems. It also addresses topics under consideration from API 692 compressor sealing standards, such as seal type selection, material of construction, components terminology, control system philosophy, seal buffer gas filtration, regulation and monitoring. In addition, the paper features the innovative DGS Condition Monitoring that alerts operators to changes that might adversely affect the performance of their overall system, allowing for the implementation of corrective actions in advance of a potential seal failure.				
	Overview of key selection and design criteria that effect major equipment design (abstract now received – thank you)				
	7. Increase of size of steam turbines and ethylene plant size, considerations on when				

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	machinery selection and plant size increase diverge. (abstract now received – thank you)		
	Field rerate case study – Williams Geismar – Inclusion of gear into existing train design. (Brian Pratka)	117	
	9. Ethylene plant turnaround overview: Planning, HSE, Execution (Peter Temofonte)	HZ	
	10. Performance monitoring, field versus factory considerations (Bill Swinton)	АТ	
	11. Ethylene Derivatives – machinery considerations for equipment in the various derivative plants (overview of all plants and equipment overview) (Peter Temofonte)	SN	
	 High energy single body integrated heat pump/ethylene refrigeration compressor for mega-ethylene cracker (abstract now received – thank you) 	PT	
	Other ideas also welcome.	BW	
		BW	
		DJ	
	Meetings going forward are being changed to Thursday afternoons in attempts to boost attendance.	PT	Ongoing
4	Nov 20 2014 GE will host Need to begin reviewing papers Dec 11 2014 Shell will host Continue review of papers Jan 22 2015 Siemens will host Target for final paper review Feb 19 2015 MCO will host Target for final presentation review March ** 2015: Schedule as needed		
5	Michael Tallman to check question on admission for UT engineering students.		10/23/14
6	Alex Tetlow will call Peter Temofonte to determine who is authoring the papers		11/20/2014
7	In the future, we will put the monitor and the author next to the paper topic in the meeting minutes	АТ	11/20/2014
	Ethylene Producers Committee		
	Anti-Trust Agreement		
8	No activity of the Committee shall involve the exchange, collection or dissemination among competitors of information, or be used for the purpose of bringing about or attempting to bring about any understanding or agreement, written or oral, formal or informal, express or implied, among competitors with regard to costs, prices or pricing methods, terms or conditions of sale, distribution, production quotas or other limitations, on either the timing, or volume of production, or sales, or allocation of territories or customers.		