

Minutes of Meeting: **EPC Maintenance & Reliability Subcommittee**
Minutes written by: Trobie Thompson / Jorge Blanco

Meeting Date: August 22, 2013

Meeting Location: Sasol North America, Westlake, LA
and via Live Meeting / Phone Conference

Members Attending:

At Sasol

Dane DeRouen - BASF
Dave Sankey - BASF
Jorge Blanco - Alstom
Trobie Thompson – Sasol
Muhammad Imran – Technip
Eddie Carter – Ineos
Dan Barnett – BD Energy

On Phone conference:

Paul Van Helmond – Linde Engineering
John Holbrook - Dow
Carl Matherne – BASF
Mark Karrs – Becht Engineering
Dave Oulton – Nova Chemicals
Mike Pelton - LynodellBasell

Guests: Ralph Stoeckle, Marc Weintraub,
Jake Lee of MagnaDrive Corporation

Meeting Started at 9:10 am

Antitrust statement: The Antitrust Statement was read to kick off the meeting.

Meeting Minutes from July 25, 2013: Reviewed and Approved.

Meeting notes of the phone call on August 2, 2013 with Trobie Thompson, Muhammad Imran and Jorge Blanco were read and made part of the minutes of the July 25, 2013 meeting.

Next Meetings

September 26, 2013 – Hosted by Paul van Helmond – Linde Engineering, Houston
October 31, 2013 – Check if Mike Pelton can host in Channelview, TX
November 21, 2013 – Hosted by John Holbrook - Dow Plaquemine

2014 conference:

By invitation of Mark Karrs, representatives of MagnaDrive Corporation joined the meeting by phone and talked about their magnetic coupling applications and their advantages. They will submit abstract by the next meeting.

Up to 14 separate topics were reviewed during the meeting. These are prioritized and appear in the list on the following page with comments on the topics, their potential of appearing at the session, assignment of author sponsors and the name of the author if already identified. Abstracts on all topics must be submitted for review prior to the next meeting on September 26.

2014 EPC, New Orleans, LA						
M&R Subcommittee Potential Session/Papers						
	Topic	Sponsor	Author	Status	Comments	Potential for follow through?
1	2009 Furnace Survey	P. Van Helmond	Shaileendar Inamdar, Linde	Paul sent copy of presentation from Linde's 2010 Ethylene Plant Revamp Conference. Presentation given by Shaileendar Inamdar and based on the 2009 M&R EPC furnace survey. Inamdar is interested in developing this idea further.	Detailed discussion about furnace and quench exchanger issues/reliability. Would be a good opener and lead-in for our furnace session.	High
2	Furnace Tutorial (revived from 2007):					
2a	Radiant Coils	Trobie	Trobie	Previously done by Bob Pritchett	Incorporate the decoke topic into this section, we can ask Lummus to do a generic presentation on decocking to demonstrate the principle of it and maybe a methodology	High
2b	Convection Section	Muhammad	Mike Pelton	Previously done by Ken Webb.	Incorporate P91 experience into this section. Polythionic acid stress corrosion may also be a point of interest.	High
2c	Steam System	Trobie	Garza	Previously done by Tom Garza.	Dave Oulton and Thomas Garza to cooperate in the area of TLE repairs and decide each others scope	High
3	Safety, Maintenance, and Reliability Issues with Furnace TLV/Decoke Valves	Jorge	Marcel Schade, Z&J	Marcel to submit a 1 to 2 paragraph abstract for our review.	Potential for Z&J to give an overall explanation of the section of the plant/process that is shown in their schematic with TLV and decoke valves (decocking and single furnace isolation from the main transfer line. Point out concerns (safety, maintenance and reliability) and how the industry has addressed them. Additionally Paul suggested including information on automatic operation system for valves.	Good
4	Decocking Method--Lummus	Mark Karrs	Brian Sullivan	Mark Karrs has contacted Lummus about this as a potential paper. May have some interest. Mark to call Brian Sullivan about tutorial aspect. Will ask for an abstract.	Part of tutorial or standalone paper	Good
5	Fuel Flow Firing Uniformity Check	Jorge	Dan Barnett	Dan is interested in doing a paper associated with even fuel firing. He will send us a short paragraph or outline describing it in better detail.	Fuel supply check for improving burner and firing distribution. Test the system valve by valve prior to start-up so you can better assure the uniform flow and hence performance of the burners. And associated with this topic, issues related to maintaining a reliable fuel system to the burners.	Good
6	Reliable COT Measurement	Dane	Joint BASF/CPChem	Ben Brown with BASF Thermo Sensing. Expect abstract within a couple weeks (mid-September).	Optical device to improve reliability of COT with respect to erosion, etc. CP Chem's actual results of the technology.	Good
7	Furnace Maintenance Techniques (repair reclamation techniques)	Jorge		Dave Oulton to talk with Garza and then send an abstract. How to take equipment and refurbish to extend life without buying new piece of equipment.		good
8	Optimization best practices for steam traps, lost energy, and design for safety.	Dane	Carl Matherne, co-author	Will try to have an abstract by mid-September	Focus on steam traps	High
9	Retrofit Magnetic Couplings for Maintenance and Energy Savings (ID Fan Application)	Mark Karrs	Jake Lee, MagnaDrive Corp.	Paper Author to call into the next subcommittee meeting (August 22) and present to the group. Draft Abstract received. Need to verify if used on an ethylene furnace. Mark to work with author for focused application on ID furnace fans and reliability.	Potential paper--magnetic coupling can be used to allow reduced speed fan operation while operating the motor at constant speed and lower power consumption.	High

Meeting Adjourned at 11:15 am