

EPC MAINTENANCE & RELIABILITY SUBCOMMITTEE MEETING

Main Location: BASF TOTAL, Port Arthur, TX
Satellite Location: ARVOS Schmidtsche Office, Houston, TX
Date: Wednesday, September 7, 2016

Minutes Written By: David Harrison

MEMBERS ATTENDING:

In Person:

Dane DeRouen (BASF)
Dave Sankey (BASF)
John Weikel (BASF)
David Harrison (Eastman)
Josh Hudson (Flint Hills)
Tatiana Randall (Flint Hills)
Keith Wade (Zeeco)

Phone:

Samantha Borssen (Sasol)
Mike Kudijaroff (Williams)
Mike Pelton (LyondellBasell)

Satellite Location (Phone):

Jorge Blanco (ARVOS)
Muhammad Imran (Technip)
Sanjeev Kapur (APEX PetroConsultants)

The Meeting was called to order at approximately 9:05 AM.

Proceedings:

- I. Read Anti-Trust Statement
- II. Introductions (In Person and On Phone)
- III. Reviewed Agenda
- IV. Reviewed Previous Meeting Minutes from 8-10-2016 at Indorama
 - a. Jorge Blanco and Dane DeRouen reviewed the meeting minutes.
 - b. Jorge Blanco asked for Tatiana Randall's (Flint Hills) and Josh Hutson's (Flint Hills) information to update the members list.
 - c. Mike Pelton (Lyondell) confirmed the next meeting (October 5, 2016) will be hosted by Lyondell in Channelview.
 - d. Jorge Blanco asked for complete names to be used in future documents to 100% identify individuals in case there are multiple individuals with the same first name.

- e. Meeting Minutes were approved.
- V. Dane reviewed members list
- a. A vote was made for adding Sanjeev Kapur to the subcommittee.
 - i. No objections, therefore, he was added to the subcommittee.
 - b. Sanjeev Kapur offered to contact Jeff Byrd (DuPont) and see if he is still interested in attending EPC or if they have anyone else.
 - c. Jorge Blanco said Neal Lynch and Jorge Pena at INEOS are possibly interested in joining the subcommittee. He suggested keeping Eddie Carter (INEOS) on the members list.
 - d. John Holbrook (Dow) does not have time to commit to EPC at this time, but maybe in the future. However, Ben Walden may be joining.
 - e. Jorge Blanco mentioned Chevron Phillips has not be active in the subcommittee recently.
 - i. Dane DeRouen to follow up with Thomas Garza to see if he is still interested. Sanjeev Kapur also suggested Bill Val as a subcommittee participant.
 - ii. Jorge Blanco suggested letting them get the new plant started before we start pushing them on their membership.
- VI. Reviewed Paper Topics
- a. Cold Box Revamp: Samantha Borssen is going to contact Technip (Richard Koes) to see if he is interested in developing a paper.
 - i. Tatiana Randall is going to put together some bullet points for consideration as a topic. She has had some experience in this area.
 - b. Convection Bank: Karl Bishop (Westlake) has not responded to this topic and Dane DeRouen removed the possible paper from the list.
 - c. Furnace-Radiant Coils: Kubota is still interested and working on paper commitments per Mike Pelton.
 - d. Aluminum Alloy: Mike Pelton is trying to contact Dr. Jakobi S+C and Hugues at Manoir
 - i. Samantha Borssen will verify if there is a welding engineer or QC manager with Turner who has any experience welding AL alloy that may be willing to contribute to a paper.
 - e. Solomon: Jeff Dudley sent Dane DeRouen a paper outline for review.
 - i. The outline was reviewed and Dane will relay questions and feedback from the subcommittee to the author for clarification and further development into an abstract.
 - f. Sanjeev Kapur reviewed his possible topic (what cracking unit issues keep you up at night) and asked if we wanted to wrap this topic in with the paper from Solomon.
 - i. He said common themes that arose were concern over aging plants and the shift to lighter feedstocks.
 - ii. He also said furnaces tended to be the top maintenance issues.
 - iii. Sanjeev suggested that the subcommittee consider a maintenance survey again next year.
 - g. Impact of Shale Gas, Gas Feeds on M&R: Determine if these topics can be made into a general overview and then make a few specific papers. (Pushing the limits of the operating parameters on equipment, plants are often designed without Operational input then Operations are left with what was built, etc.)
 - i. John Weikel will see if BASF can contribute a paper from the end user side.

- ii. Sanjeev, Shail, and Muhammad will see if they can contribute a paper from the design side regarding aging equipment and transitioning to lighter feeds.
- h. Jorge Blanco suggested the possibility of having a round table discussion, not necessarily a paper.

VII. Target Dates

- a. Draft abstracts are needed by the next meeting (Oct. 5).
- b. Abstracts are due for submittal to the EPC Oct. 24.

VIII. October Meeting

- a. Next meeting October 5th LyondellBasell, Channelview, TX.
- b. Mike Pelton, Mike Kudijaroff, and Sanjeev Kapur will have a meeting on Tuesday September 22, 2016 to discuss and review paper topics.
- c. Next meeting tentatively at Eastman Chemical (Longview, TX) on Thursday November 3rd and the satellite meeting will be at Sasol (Westlake, LA).

- IX. Dane reviewed lessons learned from 2016 Session.

Meeting concluded: 11:04 AM