

## EPC MAINTENANCE & RELIABILITY SUBCOMMITTEE MEETING

Location: Chevron Phillips Cedar Bayou

Date: Wednesday, July 17, 2019

**Minutes Written By:** Jorge Blanco

### **MEMBERS ATTENDING:**

Jimmy Cleavinger, Meeting Host (Chevron Phillips)  
Thomas Garza (Chevron Phillips)  
Brain Clark (Total)

Dave Sankey (BASF)  
John Weikel (BASF)  
Jorge Blanco (ARVOS)  
Chinh Dang (TechnipFMC)

### **MEMBERS ON THE PHONE:**

Mark Karrs (Becht Engineering)  
Sanjeev Kapur (APEX)  
Shailendra Inamdar (Linde)

Mike Pelton (LyondelBasell)  
David Harrison (Eastman)

John Weikel lead the meeting which was called to order at approximately 9:00 AM.

### **Proceedings:**

- I. Introductions
- II. Review Agenda
- III. Read Anti-Trust Statement
- IV. Review and approval of 2019-06-27 Minutes of Meeting
  - a. Participants missing from the attendees list were added
  - b. Guests, non-members, were noted
  - c. Minutes were approved with minor edits
- V. Topics & Themes for 2020 EPC - Houston
  - a. Copy of the Excel Sheet with Proposed Topics are attached to these minutes.
  - b. No theme has been suggested for 2020; it will be developed as the topics are prioritized.
  - c. Highlights of the topics reviewed
    - i. MAFTEC Alumina Fiber, Shail Inamdar will contact Ted Hagberg to determine if he has already developed or presented the topic.
    - ii. Indorama recommissioning, René Kulik will reach CP Limaye or others at Indorama for potential paper
    - iii. Refractory Life Cycle Analysis
      1. John Weikel will reach out to Tatiana to follow-upon her suggested topic from last year.
      2. Chinh Dang will contact refractory vendors to see if one can present a case study.

3. Refractory areas of interest, include, new design/build, inspection/replacement, economics, materials
4. The refractory topic could potentially end up as a tutorial or roundtable session. (Sanjeev noted that the EPC encourages Tutorials which can target young engineers likely to attend the Houston conference)
- d. TLE Hexol, topic was suggested by this manufacturer. They are a spin off from Olmi. They'll be invited when they can present a case study with an operator.
- e. Steam System, it was determined that there is no new topic to add following the presentation made in our session in 2019.
- f. Heat exchangers, plate & frame, Mark Karrs will contact Tobias at Alfa Laval, to follow-up their suggestion on this topic in the 2018 session review. They will be requested to have a case study with an ethylene operator.
- g. Furnace Isolation Valve Reliability, John Weikel will reach out to Tatiana who suggested the topic last year.
- h. A Probabilistic Approach to Fired Heater Tube Reliability, Mark Karrs will share the abstract received last year from Kraig Shipley or Brian Macejko. Need to check if it's an ethylene application.
- i. RAGAGEP for Damage Mechanism and Identification and Control, Jimmy Cleavinger will follow-up with Ken Kirkham
- j. Furnace overheat and assessment for service, Tom Garza will investigate a potential for this paper internally.
- k. MIC in CW following Harvey, Jimmy Cleavinger will look at this potential topic internally.
- l. Cooling Tower revamp, Mark Karrs will look at past projects. Tom mentioned a revamp in Port Arthur.
- m. Eastman to review in-house topics for potential papers, David Harrison will review with Ken Webb

## VI. Subcommittee Membership

- a. New Members
  - i. Ken Kirkham was introduced in the last meeting June 27. Today he was voted unanimously to be accepted in the S/C.
  - ii. Brian Clark from Total Petrochemicals, joined the meeting and was welcomed to join the S/C
- b. Membership Directory
  - i. John Weikel, S/C Chair will maintain and distribute the list
  - ii. The current Excel list was reviewed John will update it and distribute
  - iii. Follow-up with members who have not been active recently. They will be asked if they intend to continue to be involved or if they can suggest a replacement.
    1. Paul Richard, Sasol, Chin Dang will call him
    2. Dow, Jorge Blanco will contact multiple new engineers and Richard Rolke (an EPC member) to solicit new members.
    3. OxyChem, Jorge Blanco will reach out to new employees in the maintenance and reliability team
    4. DuPont, Jorge Blanco will contact the plant (now Dow) for a new member since Emily Leturno moved jobs.
    5. Jim McCarter, Jorge Blanco will send John Weikel his contact information.

- VII. Next Meeting
  - August 22<sup>nd</sup> (Thursday) at BASF at 9 am
  
- VIII. Other discussion
  - a. Mark Karrs to provide AIChE conference submittal schedule
  - b. Sanjeev Kapur to provide EPC submittal schedule
  
- IX. Meeting Adjourned: 11:20