## Thursday, December 5, 2019 – Doubletree Hotel, Houston, TX – 4:30 PM

Anti-trust statement

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- Safety moment Discussed the recent TPC event. We didn't have any substantial information other than what was in the news. This was a significant event given its impact on the community. Part of the discussion was about the need for Emergency Block Valves to be able to isolate sources of fuel to a fire.
- Membership We expect a representative from Lotte Chemical, KJ Han to join the subcommittee in the near future
  - Carrying this list Wish List for future sessions from previous meetings.
  - Rotating equipment, Static, furnaces, controls
  - Hot tap safety <u>Interest in this topic in June discussion</u>
  - Continue with good papers on brittle fracture, decomp
  - Process safety topics from the real world, another tutorial on process safety (acetylene precipitation maybe), process safety practices
  - NORM tutorial <u>interest in this topic in June discussion</u>
  - New Exxon paper on C3 fire
  - New Sasol Light ends fouling
  - New Nova (Jake) PQE Inlet Cone Failures
  - New Eastman Reverse flow from convenction section to radiant section
  - New Nova Detonations at Ground Flare
- NOx Subcommittee/Paper No significant update in this meeting. Paper is on track. Previous notes below.
  - Charter previously approved
  - Dave Grenoble agreed to present paper @ 2020 conference.
  - Meeting was held on October 9<sup>th</sup>. Good attendance -6 companies. Another meeting to focus on chemistry and analytical techniques was being discussed. This will not necessarily be part of this year's paper.
  - Subcommittee is considering updating the NOx tutorial for 2021.
- Update on Safety Session Chairs (no change)

Jeff Melching –2020 Committee Chair and Norman Wilhelm co-Chair Jeff Nichols is the 2020 Session Chair and Michael Smith is the co-chair.

## Ideas for 2020 papers/Brainstorming December Updates in Bold

Sulfur Reducing Bacteria/MIC/Selection of water for hydrotesting - Sasol and Dow are possibilities.
 Sasol reported a very large percentage of HXs needing repair/inspection. We could also consider getting a water treatment vendor to present.

This paper on Microbiologically Influenced Corrosion (MIC) was a candidate for joint Commissioning Session but it turned out we don't have enough papers to go forward with the joint session. Dow did recently agree to present a paper on MIC. At the time of our meeting this paper was thought to be going into the Ops session but at this point the Ops session does have enough papers and the MIC paper has been given back to the safety subcommitee.

- Commissioning in general (was previously discussed as joint paper or tutorial with Operations subcommittee: CPChem is considering something on Contractor Engagement. Could engage EPC Contractor. CPChem provided update prior to meeting. CPChem will be submitting an abstract for contractor safety during a MEGA project. Focus points will include contractor engagement, communication, etc...This could potentially be included in commissioning session. This will be primarily focused on personnel safety and not process safety. The group had some mixed feelings on including this paper but we may need and want it for commissioning session. CP Chem gave an update that they do not plan to present
- Valve Issues (Need presenter) This will be on backburner, not a likely paper for 2020. Not discussed in Dec meeting.
- NORM (Naturally Occurring Radioactive Material (was covered in 1996. Per June meeting David Gent will look for potential presenter – 3<sup>rd</sup> parties, surveyors, Industrial Hygiene. Update: This can be different depending on geography. Jake Barret will work with David on finding possible presenter. CPChem will also follow up with contractor. Update from CPChem: Contacted Chris Tanguay with FQE Chemicals about an overview of NORM removal/mitigation chemistry. He is the FQE Manager of technology. The group wants to pursue this paper from FQE. He could possibly work with NOVA if desired. This paper from FQE is on track AJ will track with the author and confirm progress.
- Pyrophoric polymers trays vs packing- chemical cleaning with permanganate (Need presenter)
  Can we approach McDermott they have collection of papers on Lummus Design. Check with
  Aivars Krumins from main committee.....David Gent to follow up No paper has materialized
- Brittle Fracture has anything changed since last years session? Norman checked with Ralph.
  Ralph King is not planning at paper for EPC 2020. Not discussed in Dec meeting
- Hot tap safety Idea from 2018 comments (Need presenter) Jeff Melching to talk with contractor such as TD Williamson or Steam& Process. This may be a backup plan paper if given soley by contractor. Not discussed in Dec meeting
- Paper on Underground Cooling Water failure being presented at EEPC. This failure was right next to Gasoline Fractionator. Norm Wilhelm following up and has seen draft of paper. This was promising but no author is available and the paper will not be presented in 2020.
- Micheal to look at APFM conference agenda in Fall for possible papers. Michael looked at Spring papers. Mostly generic. Nothing promising so far. No change

- Mine PS Congress for papers Jeff Melching No change
- Carryover from 2018 Braskem paper 'Protection against backflow in Existing Furnaces." Was withdrawn due to author health issue – Sankar Mahalingam to follow-up with author. No change
- Possible Sasol paper on recent ethylene decomp Jeff Nichols presented abstract. The group wants to include this either in the main session or commissioning session. Abstract has been submitted and this paper is on track.
- Deadlegs universal agreement this is an issue (Need presenter) Backburner for now No change
- New Possible ExxonMobil paper on air-blow for plant commissioning. Could work well for a joint safety + ops session. This paper is now planned for the Ops session
- New Possible paper from Exxon Mobil on self-heating materials inside of towers. Hydroprocessing Unit event, Had changed from trays to packing – Paper already being presented elsewhere, but has applicability to olefins plants ExxonMobil is planning to present this paper.
- An abstract was received from SABIC on "Lessons Learned from Furnace Switching Jeff Nichols is following up **This paper did not materialize**
- New ExxonMobil volunteered to bring another paper to fill the session. The paper may be on the topic of light ends polymer fouling
- **o** Overall Plan for Papers Safety Session
  - NORM Paper (FQE) AJ Armer is tracking progress with author and David Gent will review paper
  - Exothermic Runaway in Reactor Feed Heater (Sasol) (Abstract submitted) Jeff Elam will review paper
  - Self-Heating Polymers (ExxonMobil) (Abstract submitted) Norm Wilhelm will review paper
  - NOX Update (ExxonMobil) (Abstract submitted) Daryl Bitting will review paper
  - Light ends polymer fouling or alternate (Exxon Mobil)
  - Experiences with Hydrotesting and MIC on recent projects Dow (added after the meeting upon agreement with Ops subcommittee.)

We need additional volunteers to review papers. Would not hurt to have multiple reviewers lined up.

- Joint Session with Ops Subcommittee The session did not materialize as we did not have enough content for three sessions
- Upcoming meetings and key dates
- Remaining subcommittee meeting January 30
- EPC March 29-Apr 2, 2020 Houston, TX