

## Contaminants & Impurities in Ethylene Plants Subcommittee – October 19<sup>th</sup>, 2023, Meeting Minutes

### Team Members

Robert Alvers	X	Scott Hailey		Ross Perchuk	X
Andre Bernard	X	Omar Hamid	X	Matt Pretz	
Joice G. Boll	X	Dwight Hines		Debby Rossana	X
Jessica Burgin		David Hood	X	Yong Wang	
Mark Davis	X	Joe Lally		Mark Whitney	X
Sherri Elder	X	Vinay Naik		Lisheng Xu	
Alex Fritz	X	Jennifer Nill	X		

### 1. Anti-trust statement

*“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.”*

### 2. Updates from Main EPC Committee & AIChE

- The Technology & Fundamental Session has been moved from Tuesday morning to Tuesday afternoon and will be held in parallel to the Tutorial on Contaminants Removal.
- The Contaminants & Impurities in Ethylene Plants Session is still schedule for Tuesday morning in parallel with the Rotating Equipment Session.
- The abstract from University of Ghent has been moved to the Technology & Fundamental Session as requested by the authors.

### 3. Key Dates

- Call for abstract is currently open.
- Call for abstracts closes on October 25<sup>th</sup>, 2023.
- Paper acceptance/rejection -> 2<sup>nd</sup> week of December
- Draft Program available for review 1<sup>st</sup> week of January
- The Program goes live 2<sup>nd</sup> week of January.
- Paper submission Close/ Presentation -> 1<sup>st</sup> week of March
- Virtual Dry Run -> 2 to 3 weeks prior to the conference

- The Conference will be between March 24<sup>th</sup> to 28<sup>th</sup> 2024, in New Orleans
- T4060 Contaminants and Impurities in Ethylene Plants: Tuesday March 26, 2024, 8:00 AM – 11:00 AM.
- T4095 Contaminants Tutorial: Tuesday March 26, 2024, 13:00 to 17:30

#### 4. Tutorial on contaminants (Debby)

- Abstracts for each topic have been uploaded in confex.
- Planning on a quick Slide review. Need to agree on timeline with speakers/ authors.

#### 5. Review New Submitted abstracts.

- Contaminants Present in Ethanol and the Impact on Green Ethylene Production (Braskem)
  - The abstract has been uploaded in confex for meeting the closing date. However, Braskem is seeking approval from Lummus as Lummus is the licensor of their technology. As such, the document was not share but read during the meeting. It is believed that Lummus approval should not be a problem. Beside Braskem reaching out to Lummus, Andre communicated with Jose de Barros at Lummus.
- Overview of alternative ethylene production feedstock and their contaminants (Omar with subcommittee co-authorship)
  - Abstract was reviewed with good feedback.
  - To fit within a 20 – 25 minutes presentation, it is suggested to focus on Steam Cracker
  - Abstract to be uploaded in confex. *Note: abstract has been uploaded in confex as the minutes were being edited*
- Amine Additives as a source of ammonia in ethylene production and its control: a case study (NOVA Chemicals)
  - The abstract has not been approved by NOVA yet and as such was read to the team.
  - Good practical case study aligning with David Hood & Dwight Hines potential paper on ammonia. Need to ensure/ minimize overlap between the 2 papers.
  - Andre & Alex to follow up on paper approval and upload in confex.

- Renewable Feedstocks: Challenge & Solutions (Baker Hughes)
  - Abstract is uploaded and was reviewed during the September meeting.

## 6. Ideas for 2024

### **Advances in Purification of Monomers for Petrochemical and Polymerization Applications**

- Honeywell – UOP Abstract submitted to the 2023 session but rejected due to a filled-up session. Honeywell - UOP will re-submit an abstract. Abstract has not been uploaded yet; Scott indicated by Email that it will be uploaded before the closing date.

### **Impact of higher volume of ethane cracking on Primary Fractionator - Industry Experience/ Impact on CGC.**

- This idea will be moved to the standby list.

### **MEA & NH3 issues**

- David indicated that him and Dwight will have the abstract complete and uploaded within the next few days. *Note: abstract has been uploaded in confex as the minutes were being edited*

### **Pyro Oil from Plastic Waste**

- Potential Paper on Silicon Removal. Silicon as a contaminant in plastic waste recycling. Jennifer to check & ensure the abstract gets uploaded in confex before the closing date.
- Naphtha blending with Pyroil from plastic waste – Evonik confirmed their interest in doing a paper. Still awaiting abstract upload in confex (Joe/ Andre to followup)

## 7. Technical Discussion

- None for now – Focus on abstracts upload in confex.

## 8. Other Business

Question regarding the duration of the break during the sessions – 20 minutes break was confirmed by Mark W.

## **9. Schedule Next Meeting**

Next Meeting November 30<sup>th</sup>, 2023, at 15h00 CST