**FINAL Minutes of September 21, 2017 Ethylene Producers’ Environmental Sub-Committee Meeting**  
(September 21, 2017, Rev. 0)

Following are the minutes of the September 21, 2017 Ethylene Producers’ Environmental Sub-Committee Meeting, held via teleconference with Walter Postula, Shell Global Solutions (US) Inc., as host.

**Present:**  
Benjamin Burns, SASOL North America  
Brandon Lithgoe, NOVA Chemicals  
Dan Lutz, Ineos  
Walter Postula, Shell Global Solutions (US) Inc.  
Jeffrey Seay, University of Kentucky (AIChE Environmental Division)  
Mark Ulrich, Linde Engineering North America  
Gary Wojnowski, BASF  

**Absent:**  
Rick Beleutz, LyondellBasell  
Jacob Hilbrich, ChevronPhillips  
Brad Hopper, BASF  
Patti Long, Eastman  
Arijit Pakrasi, APTIM  
Mark Schmidt, DuPont  
Debalina Sengupta, Texas A&M (AIChE Environmental Division)  
Dick Siegel, R&B Consulting Services (AIChE Environmental Division)  
Edward Soliz Jr., SASOL North America  
Russell Wozniak, Dow  

The teleconference began at 9:00am with Walter Postula reading the Ethylene Producers’ Committee (EPC) anti-trust statement:

> No activity of the committee shall involve the exchange, collection, or dissemination of information among competitors for the purpose of bringing about or attempting to bring about an understanding or agreement, written or oral, formal or informal, express or implied, among competitors, with regard to costs, prices, 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.

The meeting agenda was published in advance and is included below:

1) Reading of Anti-Trust Statement [9:02 AM]  
2) Discussion of Potential Topics and Authors for Environmental Session [9:05 AM]  
3) Review of Action Items [9:55 AM]  
4) Important Date Reminders  
   - November 13, 2017 – call for abstracts closes  
   - December 18, 2017 – all papers accepted or rejected  
   - January 8, 2018 – draft schedule ready  
   - January 19, 2018 – technical program live & on-line registration opens  
   - March 28, 2018 – paper submission closes  
   - April 23-26, 2018 – Spring Meeting – Orlando, FL
This was the first call with participation from Jeff Seay. Walter asked him to briefly introduce himself to the rest of the group. Jeff is an Associate Professor of Chemical and Materials Engineering at the University of Kentucky. He is currently the Programming Chair for the AIChE Environmental Division.

**Discussion of Potential Topics for Environmental Session:** The following topic ideas that were listed in the August 10th minutes were discussed. The wording from the previous minutes is in blue italics.

1) Brandon contacted ACC and expects further feedback next week. There is not a firm person identified. ‘Plan B’ is to contact subcommittee members whose company has representation on the RTR work group. *The RTR update is delayed until 2019, but there is knowledge on what to expect. Brandon will try to identify a speaker/author to present upcoming regulations.*

2) Brandon stated that any brief update on this topic may have to be combined with the RTR update. At the moment ACC does not want to provide many details in a public forum. *Particulate matter emissions from deoke pots.* ACC has compiled data from EPA data requests. Brandon will try to identify a speaker/author.

3) Rick provided Walter with e-mail update. He was not able to get much traction on the FLIR topic within LyondellBasell. Brandon indicated that the president of Dexter Field Services would be willing to present on this topic. *Rick stated that his company has done some FLIR work. Rick will look into a potential speaker. All should do the same within their respective companies. Walter mentioned that the last time this was covered in the environmental session was 2011.*

4) Dick has not been able to get a response from Bruce via the contact information that Walter provided. If anyone has “good” contact information for Bruce please provide to Dick. *Dick Siegel will contact Bruce Davis (formerly of DuPont) about presenting on fugitive emissions. Walter will provide Dick with Bruce’s latest contact information.*

5) Rick did not provide update on this idea. *Rick will try and identify a speaker/author on recent work LyondellBasell has done on upgrading their control system for steam injection into an elevated flare. Mark Schmidt mentioned they have worked on the same, but would not be in a position to present in 2018.*

6) Walter asked if there was a producer (that also had refineries in their company) that could address the idea Patti suggested. There was no immediate volunteer. A "case study" of recent environmental regulation changes and impact to refineries – focusing on when the changes were passed, how long did they have to implement, costs associated with changes, did changes involve modifications to existing units or were new equipment needed, what were human resources involved, other impacts (testing, inspections, monitoring, maintenance). [NOTE: This came via e-mail from Patti Long as there was some issue with her connection during the call]. All with refineries in their companies should check if this type of depth is available (and someone would be willing to share!).

**Other Discussion Items:** Dan Lutz asked if any of the members have heard of impact of Paris accord on plants (is Europe a preview?). No specific response, other than there may be taxes on CO₂ (Gary).

**Review of Action Items:** Brandon to continue discussion with ACC about RTR update and PM emissions from deoke pots. Brandon will send Walter list of names of Work Group members who are employees of subcommittee member companies. Brandon will give go ahead to Dexter Field Services for developing abstract. Rick to identify a speaker/author on recent work LyondellBasell has done on upgrading their control system for steam injection into an elevated flare. Jeff will send Walter a list of AIChE Environmental Division programming areas (done). Walter will check Confex for "unsolicited"
abstracts to the environmental session (done – no abstracts submitted). **All** – continue to suggest topics and identify authors/presenters.

**NOTE:** Our next meeting will be “face to face” at the Linde Office in Houston. Details will be provided in the meeting notice.

**Adjourn:** The teleconference was closed at 9:30 am after important conference dates were reviewed.

**AIChE Environmental Division Programming Areas:**
- Air
- Climate Change
- Environmental Division
- Fundamentals
- Legislation and Regulation
- Process Development
- Solid Waste
- Sustainability
- Water