

EPC Technology Subcommittee Meeting
January 30, 2014

Minutes of Meeting

Location: Doubletree Hotel, Houston, TX

Present: In Person: Robert Krinock, Aivars Krumins, Sanjeev Kapur, Greg Yeo, Mike Tallman, Tim Zygula, Rick Prickett, Ravi Lal, Jack Buehler, Brian Bahr

Conference Call:

Absent: Greg Dunnells, Alberto Morales, Alain Chepda, Darren Le Geyt, Chell Chellappan

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Agenda:

- 1) Reading of the Anti-Trust Statement
- 2) Five Minutes on Safety
- 3) Approval of Previous Meeting Minutes
- 4) 2014 EPC Conference Planning
The "Fundamentals Session" Discuss the actions listed in the last meeting minutes. Address any concerns for the upcoming EPC conference.
- 5) Robert Krinock will update the group on the status of the joint session on auto refrigeration failure.
- 6) Calendar for 2013 – 2014 - Upcoming Meeting Date Reminders:
2014 AIChE Spring Meeting / EPC Conference: March 30th- April 3rd, 2014 – New Orleans, LA
- 7) Review Action Item List
- 8) Adjourn

1. Reading of the 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

EPC Technology Subcommittee Meeting
January 30, 2014

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. Safety Topic

Aivars discussed the following:

The 2010 Tesoro Refinery Fatal Explosion Resulted from High Temperature Hydrogen Attack Damage to Heat Exchanger.

More information on this topic can be found at the following web sites.

- [CSB Tesoro Video](#)
- [CSB Report](#)

3. 2014 EPC Conference

The “Fundamentals Session” – The session is in very good shape. We have had contact with four of the six authors. Two of the authors have submitted finalized paper and have given AIChE permission to publish while the other two authors are proceeding with their papers and should have no problem completing the paper by the deadline. Jack will contact the other two authors who have not responded to his email to see how their papers are proceeding.

Jack will send out a reminder to the authors of the deadlines for submitting the paper as well as the deadline to submit the PowerPoint presentations. The committee is requesting that the authors submit their papers by March 3rd 2014 and the PowerPoint presentations by March 17th 2014. Jack is also sending out a reminder to the authors to check the box that gives AIChE permission to publish the paper.

The Auto-Refrigeration workshop is finalized. The schedule for the workshop is as follows:

The morning safety session currently is comprised of six papers. The last one is a paper on Auto-refrigeration Rick Swain is in contact with the authors, and has informed them of the deadlines for paper submission. So far he has not heard any concerns from any author about completing the paper. If someone on the committee has a desire to review the Auto-refrigeration paper Rick will honor that request.

The afternoon session is comprised of a paper to start the session, followed by Ralph King’s tutorial on Auto-refrigeration. The session concludes with a 30 minute panel discussion. The plan is to open with a question/answer session, but chair will ask the

EPC Technology Subcommittee Meeting
January 30, 2014

panel members to each have one topic for discussion in case we do not have sufficient questions to fill the time period. Panel members will consist of the author from the morning session who presented the last paper, the authors from the introductory paper for the afternoon session, Ralph King, and one or two volunteers. I have already accepted one, Russell Miller from BASF, and the chair is considering adding Ed Mohundro, who brings a lot of general olefin plant experience (to round out the group and to have someone other than a pure auto-refrigeration expert. Bala Devakottai has agreed to be an alternate in case someone cannot stay for the panel discussion.

4. Future Topics For The 2015 Conference:

The group also discussed topics for the 2015 EPC Conference.

Plate and Frame Exchanger Session/Tutorial – Some of the topics may include design aspects of these exchangers. The exchangers are getting larger what are some of the difficulties in the design of these exchangers? Are there any past or new safety concerns that need to be considered? Is there an alternate design that could be considered instead of using these very large exchangers? Finally, new maintenance concerns are raised with the use of the large exchangers.

A joint session with the Environmental group “The Future of Flaring” – Based on new environmental rules on the horizon this session will focus on the minimization of flaring. This session would explore new flaring technology and plant designs that minimize flaring.

Information Technology Session – The focus of this session would be to highlight technology that enhances plant operations. Some of the topics for discussion may be: The use of electronic handheld units to collect plant/environmental data. How computer simulators can be used to train operators in plant operation. What is the future for this type of training? The use of dynamic simulations to simulate plant start-ups, feed stock changes and other operational states.

Start thinking about the these topics and any other suggestions you may have for the 2015 meeting.

5. Meeting Minutes and other Topics:

The meeting minutes from the November were accepted without change.

The new EPC Web site is up and running go check it out at www.aiche.org/epc

At the June 12th meeting will be selecting a new Chair and Co-Chair for the Technology Sub-Committee. If you're interested in submitting your name for these positions let me know.

EPC Technology Subcommittee Meeting
January 30, 2014

6. Adjournment / Next Meeting

The next formal group meeting will be held at the Doubletree Hotel(Old Renaissance Hotel Houston) : June 12, 2014 in Houston, TX.