

Contaminants & Impurities in Ethylene Plants Subcommittee – May 11th, 2023 Meeting

Team Members

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Joice G. Boll		Dwight Hines		Debby Rossana	X
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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. Meeting Objective

This meeting was not part of the subcommittee regular monthly meetings, and its purpose was to discuss the possibility of setting up a tutorial session on contaminants treatment/ removal for the 2024 EPC.

3. Discussion Summary

It is suggested to structure the tutorial around mechanical removal and chemical treatment of contaminants/ impurities within an ethylene plant. Given that there was a tutorial on caustic tower last spring we would try to minimize/ avoid discussions around this topic. We are considering dividing the tutorial in 3 parts as described below:

1. Contaminants/ impurities removal by adsorption (molecular sieve).
2. Contaminants/ impurities removal by filtration.
3. Contaminants/ impurities chemical treatment with inhibitors and/ or dispersant.

It is suggested to allocate 45 minutes per topics with additional time for questions (15 to 20 minutes total) and break (20 to 30 minutes), which should fit a 3-hour session.

The topics should focus on fundamental concepts, applications, and design/operation pit falls. Sales/ marketing aspect shall be avoided. It is suggested to conduct early meetings with potential presenters for establishing ground rules and expectations.

4. Path Forward

Debby volunteered to chair the session. Co-Chair to be determined.

Mark will present the idea to the Main EPC Committee and the Technology Subcommittee to ensure that this will not conflict with other initiatives.

Debby and Sherri volunteered to develop the Chemical Treatment part.

Regarding adsorption, Jay Gorawara (Honeywell - UOP) has already shown interest in contributing to such a tutorial. (Andre will follow up with Jay).

Regarding the filtration part, Andre will reach out to Emmanuelle Biadi at Pall to see if there is any interest in participating.

Meetings on the tutorial will be done outside the typical subcommittee meetings where it would be expected to engage the presenters early in the development of the tutorial.