ASIAN DOWNSTREAM SUMMIT 2017

Harnessing the Potential of Digital & Process Technologies

Speaker interview with **Dr. Steve Matza, Chief Scientist, ZymeFlow Decon Technology, USA.**

He will be presenting a case study "*Coker unit emergency shutdown*", giving insights on best practices in reducing contaminants, mechanical cleaning and how to prepare a coker unit during an emergency shutdown on 26th October.

1. At Zyme-Flow, what are some of the work you are doing that will interest downstream operators? Is there any new findings which is worthy of mention?

We are constantly talking with our customers to get feedback on problem areas for cleaning and decontamination. Our newest chemistry, Rezyd-HP, came out of those conversations and has found huge success with our downstream customers for cleaning heavy units. It greatly reduces the heavy sludge and coke build-up and reduces or eliminates any mechanical cleaning previously required. We are now doing research and testing other applications for this unique chemistry including heat exchanger cleaning. We have done numerous projects where we isolate a bank of exchangers and circulate Rezyd-HP to regain heat efficiency while the unit is still able to run. We have seen a lot of success and excitement from our customers. This could be a game changer in lengthening the time in between a unit shutdown.

2. What are the latest technology adoptions by downstream operators in Asia? Are there any success stories that other operators can learn from?

We have seen a positive shift in customers adopting the Vapour-Phase® Process. Traditionally the Asia market has used a circulation methodology for cleaning their process equipment. However, we have finally seen the change to using Vapour-Phase which is the process when our specialty chemistry becomes part of the steam and is able to decontaminate the whole circuit with as little as one injection point. This methodology is widely used globally and been accepted as the best practice for the fastest way to clean a unit in addition to greatly reducing effluent and manpower.

3. What will be the highlight of your presentation at Asian Downstream Summit?

The case study we discuss has received a lot of attention. We had successfully utilized Rezyd-HP chemistry in many field applications. However, this particular project was a coker unit that processed Venezuelan crude which is extremely heavy. This unit had also not been shut down in 6 years. Overall, this meant that it was an extraordinarily dirty unit that we knew traditionally had several meters of coke

build-up *after* traditional chemical treatment. Using Rezyd-HP on this particular unit was a true test on just how efficient the chemistry is. Reviewing the methodology and results is definitely the highlight of the presentation.