US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Erica,

The PDH unit will not utilize a separate reactor charge heater to heat the reactor feed. Formosa considered a separate heater during the preliminary design stage and instead selected a more energy efficient design that recovers thermal energy from the reactor flue gases and the reformer effluent stream.

In response to your question concerning the regeneration air, two electric motor-driven air compressors will supply regeneration air. An air heater will not be utilized for regeneration operations.

Regards,

Eric Quiat P.E. | Project Engineer
Zephyr Environmental Corporation
2600 Via Fortuna, Ste 450 | Austin, TX 78746
Direct: 512.579.3823 | equiat@zephyrenv.com
ZephyrEnv.com | HazMatAcademy.com

From: LeDoux, Erica [mailto:LeDoux.Erica@epa.gov]
Sent: Tuesday, April 08, 2014 12:07 PM
To: Karen Olson; Eric Quiat
Cc: Robinson, Jeffrey; Wilson, Aimee
Subject: Formosa PDH question

Karen and Eric

During the conference call a couple weeks back, you stated that the technology that will be utilized for the Formosa PDH didn't warrant the use of a reactor charge heater to heat the propane feed to the PDH reactors. Please confirm this for the permit record.

Also, will an air compressor be used for the regeneration air to be used to regenerate the PDH reactor catalyst. What will be used to drive the air compressor i.e., steam turbine, electric. Will an air heater be utilized for regeneration of the reactors?

Thank you, Erica

Erica G. Le Doux, Environmental Engineer
U.S. EPA Region 6
Air Permits Section (6PD-R)
1445 Ross Ave.
Dallas, TX 75202
Office: (214) 665-7265
Fax: (214) 665-6762
ledoux.erica@epa.gov

This e-mail may contain material that is confidential, privileged, and/or attorney work product and is for the sole use of the intended recipient. Any review, reliance, or distribution by others or forwarding without express permission is strictly prohibited. If you are not the intended recipient, please contact the sender and delete all copies.

US EPA ARCHIVE DOCUMENT