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**INNOVATIVE TECHNOLOGY ALLOWS REFINERS TO CONVERT
FCC OFF-GAS OLEFINS TO HIGH-OCTANE GASOLINE**

DTL™ technology from Koch-Glitsch and INVISTA Performance Technology partnership provides upgrade opportunities to improve bottom line

WICHITA, Kan. – Koch-Glitsch and INVISTA Performance Technology (IPT), affiliates of Koch Industries, announced today a new partnership to offer innovative DTL™ process technology, allowing refineries to capture the value spread between replacement fuel costs and high-octane gasoline blend stock.

DTL process technology converts light olefins, present in fluidized-bed catalytic cracking (FCC) off-gas, coker off-gas and other refinery streams, into high-octane gasoline blend stock, significantly increasing their value.

“Today’s market is looking for higher octane fuels, and this process allows refiners to deliver more of the high-value, high-octane fuels consumers seek,” said Christoph Ender, Koch-Glitsch vice-president of sales and marketing. “Through this partnership, we can provide our customers full-service project execution along with advanced technologies.”

Commercially demonstrated in 12 refineries with another unit under construction, DTL technology uses proprietary catalysts that oligomerize and aromatize off-gas olefins, converting difficult to recover components such as ethylene, propylene and butylene into high-octane gasoline blend stock.

The technology delivers approximately 75 wt% C5+ liquid yields and 10 wt% LPG, which can be blended to the gasoline pool for increased gasoline production. This low CAPEX process has a small footprint and is integrated into the refinery downstream of the FCC gas plant using standard refinery equipment, such as fixed-bed reactors, absorption and separation columns and heterogenous catalysts. The unsaturated fuel gas leaving the FCC gas plant and other unsaturated gases blended as feed are diverted to the DTL process where it converts the stream into high-octane gasoline blend stock.

Additionally, DTL complements propylene producing FCC units — revamped or new — as it converts excess ethylene, butylene and any unrecovered propylene present in the fuel gas back to high-octane gasoline blend stock. This provides flexibility to refiners to take advantage of high propylene prices without worrying about excess fuel gas production.

“This partnership couples IPT’s licensing and technology transfer capabilities with Koch-Glitsch’s market knowledge and refinery technology expertise,” said Mike Massa, INVISTA Performance Technology commercial licensing director. “The extensive capabilities of the broader Koch Chemical Technology

Group allow us to offer project execution strategies — including EP, EPCM, EPC, etc.— that meet the needs of individual refiners. This is a winning combination for our existing and future clients.”

To implement the DTL technology in your facilities, please email KGProcessTechnology@kochglitsch.com or contact a local Koch-Glitsch representative. For more information visit, www.koch-glitsch.com/DTL.

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About Koch-Glitsch

Koch-Glitsch, LP is a global leader in the design and manufacture of mass transfer, mist elimination, and liquid-liquid coalescing equipment for the refining, chemical, petrochemical and gas processing industries. With the largest installed base in the industry, Koch-Glitsch engineers have the knowledge and experience to supply innovative designs for an extensive array (wide range) of applications and requirements. The company’s products and services are available worldwide through its (global) network of sales, engineering, manufacturing and service facilities. Koch-Glitsch, based in Wichita, Kansas, is a Koch Chemical Technology Group, LLC company. More information is available at www.koch-glitsch.com.

About Koch Chemical Technology Group

Koch Chemical Technology Group, LLC and its subsidiaries design, manufacture, install and service process and pollution control equipment, and provides engineering services for industries and municipalities worldwide. Subsidiaries include Koch-Glitsch, LP; Koch Membrane Systems, Inc.; Koch Heat Transfer Company, LP; John Zink Hamworthy Combustion; Optimized Process Designs, LLC; Koch Specialty Plant Services, LLC, and Koch Knight, LLC

About INVISTA Performance Technologies

INVISTA Performance Technologies (IPT) is the technology licensing group within INVISTA. IPT provides the resources and know how to deliver world-scale technology for licensing to a growing portfolio of technologies in the polyester, polyurethane, nylon and refining value chains. Plant process design and project execution skills have been married with expert functional engineering and production know-how to provide unparalleled expertise in technology licensing. www.ipt.invista.com/en.