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Honeywell UOP's proprietary technology converts propane to propylene, a primary component of plastics in consumer goods

DES PLAINES, Ill., Oct. 29, 2019 — Honeywell announced today that **Zibo Qixiang Tengda Chemical Co., Ltd.,** (QTXD) will use its UOP **C_3 Oleflex**™ technology to expand production of propylene in response to growing demand for propylene derivatives. Honeywell UOP also will provide licensing, the process design package, proprietary and non-proprietary equipment, on-site operator training, technical services for startup and continuing operation, catalysts and adsorbents for the project.

QXTD currently operates an existing C_3/C_4 Oleflex unit that coverts propane and isobutane into propylene and isobutylene. With the second C_3 Oleflex unit, QXTD will produce additional quantities of polymer-grade propylene to make propylene oxide, a key ingredient for polyurethanes. Increased demand for polyurethane foam comes from the automotive, building and construction, textiles and furnishing industries.

"Customers including QXTD have been at the forefront of addressing the growing demand for propylene, which is the primary component in thousands of consumer products," said Bryan Glover, vice president and general manager of Honeywell UOP's Petrochemicals & Refining Technologies business. "This expansion in propylene capacity establishes QXTD as a major supplier while also diversifying its product portfolio."

Globally, most new dehydrogenation projects since 2011 have been based on UOP technology, including projects for propane (C_3), isobutane (iC_4) and mixed C_3/ iC_4 service. Global production capacity of propylene from Oleflex technology currently stands at approximately 7.8 million metric tons per year.

Honeywell UOP's **C_3 Oleflex** technology uses catalytic dehydrogenation to convert propane to propylene and is designed to have a lower cash cost of production and higher return on investment among competing technologies. Its low energy consumption, low emissions and fully recyclable, platinum-alumina-based catalyst system helps minimize its impact on the environment. The independent reaction and regeneration sections enable steady-state operations, improved operating flexibility, and a high on-stream factor and reliability.

Based in Zibo, in China's Shandong Province, QXTD researches, develops, produces, and markets various chemical products in China. It manufactures and distributes propylene, isobutylene, tert-butanol, butadiene rubber, carboxylated styrene butadiene, latex and other petrochemicals. The company exports to the United States, Japan, Canada, South Korea, and India, and is a subsidiary of Zibo Qixiang Petrochemical Industry Group Co., Ltd.

Honeywell UOP (**www.uop.com**) is a leading international supplier and licensor of process technology, catalysts, adsorbents, equipment, and consulting services to the petroleum refining, petrochemical, and gas processing industries. Honeywell UOP is part of Honeywell's Performance Materials and Technologies strategic business group, which also includes Honeywell Process Solutions (www.honeywellprocess.com), a pioneer in automation control, instrumentation and services for the oil and gas, refining, petrochemical, chemical and other industries.

Honeywell (**www.honeywell.com**) is a Fortune 100 technology company that delivers industry specific solutions that include aerospace products and services; control technologies for buildings and industry; and performance materials globally. Our technologies help everything from aircraft, buildings, manufacturing plants, supply chains, and workers become more connected to make our world smarter, safer, and more sustainable. For more news and information on Honeywell, please visit **www.honeywell.com/newsroom**.

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Global media contact:

John Simley
john.simley@honeywell.com

+1.847.391.2278

China media contact:

Emily Deng
Jingyin.deng@honeywell.com

+86.182.2143.6771