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Honeywell Technology Helping Chinese Company Tap Crude Oil Alternatives To Meet Growing Demand For Plastics

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Breakthrough technology and control systems convert low-cost, local resources into the ingredients used to make plastics and other key materials

DES PLAINES, Ill., Dec. 1, 2015 — Honeywell (**NYSE: HON**) announced today that LUXI Chemical Group Co., Ltd. selected Honeywell process technology and automation controls to convert coal to key ingredients used to make plastics.

LUXI will use Honeywell UOP's **Advanced Methanol-to-Olefins (MTO) process** to convert methanol derived from gasified coal into 293,000 metric tons per year of ethylene and propylene at its facility in Liaocheng, Shandong Province, China. The operations will be managed by a suite of automation and control technologies from Honeywell Process Solutions (HPS).

Global demand for ethylene and propylene is growing 4 to 5 percent per year. Traditionally, these petrochemicals are produced from crude oil. The MTO process allows producers in regions without abundant domestic supplies of

crude to **produce key plastic ingredients from natural gas or coal**, which are often more abundant and cheaper.

“The technology to turn methanol from coal into plastics has been well-proven in China, which is expected to invest more than \$100 billion in coal-to-chemicals technology in the next five years,” said Mike Millard, vice president and general manager of UOP’s Process Technology and Equipment business. “Eight companies in China have chosen UOP’s Advanced MTO technology, representing a total capacity of nearly 3.2 million metric tons per year.”

The automation and control systems at the plant, which will be supplied by HPS, contain proprietary UOP operating models to improve operating efficiency. The suite of solutions includes the Experion® Process Knowledge System (PKS) and Safety Manager.

“Combining UOP process technology with HPS automation and controls will help LUXI maximize its return on investment for the entire project lifecycle – from startup to reaching and maintaining peak performance,” said Aldous Wong, HPS vice president, Greater China. “As competition continues to grow, it is critical that facilities maximize production while lowering total cost of ownership.”

Honeywell UOP’s Advanced MTO process combines the UOP/Hydro MTO process and the Total/UOP Olefin Cracking process to significantly increase yields and feedstock efficiency. The process converts methanol from coal and natural gas into ethylene and propylene. At the heart of the technology are UOP’s proprietary catalysts, which make it possible to efficiently adjust the ratio of propylene and ethylene produced, so operators can most effectively meet demand for those products. In addition, the Advanced MTO process offers the lowest operating cost, quick and efficient start-up, and operational reliability.

Experion® PKS is the heart of the Integrated Control and Safety Systems (ICSS), which offers more than traditional distributed control systems (DCS), enabling seamless integration of all process control and safety systems and automation software under one unified architecture. **Safety Manager** integrates process safety data, applications, system diagnostics and critical control strategies, and executes defined safety applications in a fully redundant

architecture.

LUXI Chemical Group Co., Ltd. was founded in 1998 and is part of **LUXI Group**, a large state-owned enterprise involved in chemicals, fertilizers, chemical equipment and chemical engineering design.

Honeywell Performance Materials and Technologies (PMT) is a global leader in developing advanced materials, process technologies and automation solutions. PMT's Advanced Materials businesses manufacture a wide variety of high-performance products, including environmentally friendlier refrigerants and materials used to manufacture end products such as bullet-resistant armor, nylon, computer chips and pharmaceutical packaging. Process technologies developed by PMT's UOP business (www.uop.com) form the foundation for most of the world's refiners, efficiently producing gasoline, diesel, jet fuel, petrochemicals and renewable fuels. PMT's Process Solutions business (www.honeywellprocess.com) is a pioneer in automation control, instrumentation and services for the oil and gas, refining, pulp and paper, industrial power generation, chemicals and petrochemicals, biofuels, life sciences, and metals, minerals and mining industries.

Honeywell (www.honeywell.com) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes, and industry; turbochargers; and performance materials. For more news and information on Honeywell, please visit www.honeywellnow.com.

This release contains certain statements that may be deemed "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934. All statements, other than statements of historical fact, that address activities, events or developments that we or our management intends, expects, projects, believes or anticipates will or may occur in the future are forward-looking statements. Such statements are based upon certain assumptions and assessments made by our management in light of their experience and their perception of historical trends, current economic and industry conditions, expected future developments and other factors they believe to be appropriate. The forward-looking statements included in this release are also subject to a number of material risks and uncertainties, including but not limited to economic, competitive, governmental, and

technological factors affecting our operations, markets, products, services and prices. Such forward-looking statements are not guarantees of future performance, and actual results, developments and business decisions may differ from those envisaged by such forward-looking statements. We identify the principal risks and uncertainties that affect our performance in our Form 10-K and other filings with the Securities and Exchange Commission.

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