Honeywell's UOP And Total Petrochemicals Successfully Demonstrate Technology To Produce Plastics From Feedstocks Other Than Oil

Honeywell International

Methanol-to-olefin demonstration unit in Belgium shows commercial viability of technology to convert alternative feedstocks into base materials for petrochemicals production

DES PLAINES, Ill., July 6, 2010 -- UOP LLC, a Honeywell **(NYSE: HON)** company, announced today that Total Petrochemicals has successfully demonstrated UOP technology that will enable the use of feedstocks other than petroleum to produce plastics and other petrochemicals.

A demonstration unit built by Total Petrochemicals at its complex in Feluy, Belgium, used UOP/Hydro MTO methanol-to-olefins technology to convert methanol to ethylene and propylene. The propylene was then successfully converted to polypropylene product. This demonstration proves that propylene produced from methanol at a semi-commercial scale is suitable for plastics production. Methanol is commonly produced from natural gas and coal.

“This success demonstrates that the UOP/Hydro technology can produce high-quality propylene, one of the major building blocks for plastics and petrochemicals, from alternative feedstocks,” said Peter Piotrowski, senior vice president and general manager of UOP Process Technology and Equipment. “This technology gives petrochemical producers new, viable alternatives to the use of petroleum by enabling the use of methanol derived from sources such as natural gas, coal or biomass.”

The demonstration unit has run consistently for more than 150 days since its start-up last year and has met product yield expectations. The unit has processed up to 10 metric tonnes per day of methanol to produce the light olefins ethylene and propylene, which are basic building blocks for many petrochemicals, including plastics.

“This proves that the technology built and operated by Total Petrochemicals in conjunction with Honeywell’s UOP opens the way to very efficient production of polyolefins based on methanol from alternative feedstocks such as coal, natural gas or biomass,” said Eric Duchesne, the head of Total’s MTO project.

The demonstration plant integrates MTO process technology with the Total Petrochemicals/UOP Olefin Cracking Process (OCP). Use of the Olefin Cracking Process, jointly developed by Total Petrochemicals and UOP, will boost the total yield of usable ethylene and propylene while minimizing hydrocarbon byproducts. The OCP unit is scheduled to start up later this year after initial testing of the MTO

unit is completed.

The demonstration plant was designed to assess, on a semi-commercial industrial scale, the technical feasibility of the integrated MTO and OCP processes with full product recovery and purification. These combined technologies can provide the highest yields available for producing light olefins from methanol. The unit is the world's first application of these combined technologies, which will help diversify feedstock sources for plastics production.

Total Petrochemicals is a division of Total, the fourth largest oil company in the world.

UOP LLC, headquartered in Des Plaines, Illinois, USA, is a leading international supplier and licensor of process technology, catalysts, adsorbents, process plants, and consulting services to the petroleum refining, petrochemical, and gas processing industries. UOP is a wholly-owned subsidiary of Honeywell International, Inc. and is part of Honeywell’s Specialty Materials strategic business group. For more information, go to www.uop.com [1].

Honeywell International (www.honeywell.com [2]) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes and industry; automotive products; turbochargers; and specialty materials. Based in Morris Township, N.J., Honeywell’s shares are traded on the New York, London, and Chicago Stock Exchanges. For more news and information on Honeywell, please visit www.honeywellnow.com [3].

This release contains “forward-looking statements” within the meaning of Section 21E of the Securities Exchange Act of 1934. All statements, other than statements of fact, that address activities, events or developments that we or our management intend, expect, project, believe or anticipate will or may occur in the future are forward-looking statements. Forward-looking statements are based on management’s assumptions and assessments in light of past experience and trends, current conditions, expected future developments and other relevant factors. They are not guarantees of future performance, and actual results, developments and business decisions may differ from those envisaged by our forward-looking statements. Our forward-looking statements are also subject to risks and uncertainties, which can affect our performance in both the near- and long-term. 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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