

Houston, April 11, 2019

Siemens to supply reciprocating compressors for steam methane reformer

- **Siemens will supply three Dresser-Rand® 5HHE-VL-3NL reciprocating compressors for what will become the largest hydrogen production unit in the United States.**

A leading industrial gas company recently selected Siemens to supply three Dresser-Rand® 5HHE-VL-NL reciprocating compressors for a new, state-of-the-art steam methane reformer (SMR) in Texas. The SMR will provide high-purity hydrogen for the gas company's customers throughout the region.

Commissioning of the compressors is expected in 2020. Once completed in 2021, the SMR will become the largest hydrogen production unit in the U.S., increasing the gas company's hydrogen capacity to more than 1.5 billion cubic feet per day.

"Over the past two decades, Siemens has established trustful cooperation with this customer to expand its U.S. Gulf Coast hydrogen pipeline system, which is one of the largest in the world," said Patrice Laporte, Vice President, Siemens Gas and Power, Oil & Gas for the Americas. "This recent order builds on our companies' longstanding partnership and will mark the 23rd, 24th, and 25th reciprocating compressors that Siemens has supplied to this gas company since 2001."

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With the goal of maximizing efficiency and reducing costs, the customer selected a standardized product design for the SMR. The three 12.75-inch-stroke 5HHE-VL reciprocating compressors will feature similar configurations to units that have been supplied to the customer in the past. Critical to the design is the non-lubricated cylinder construction, which eliminates the need for a costly oil removal system. Additional design features include integrated lube oil consoles, a cooling water console, purge panels, pulsation vessels, intercoolers, aftercooler, relief valves, and process control valves. A slow-speed synchronous motor will drive the compressors.

Designed for continuous service, maximum availability, and flexible operation, Siemens reciprocating compressors continue to be a preferred choice for customers in applications from refineries to pipelines.

Interest in hydrogen is growing and driven in large part by increased demand by secondary users where hydrogen is a significant component to the manufacture of their end products.

“Working early on to develop a standardized compressor design is yielding significant benefits by reducing plant design, engineering, and installation costs, decreasing personnel training requirements, and will allow our customer to minimize its inventory for spare parts,” added Laporte. “We look forward to helping them efficiently and reliably supply hydrogen to their customers across the Gulf Coast region.”



Above: Typical Dresser-Rand® HHE-VL reciprocating compressor installation utilizing an engine-type synchronous motor similar to the configuration of the three units that will be installed at the new steam methane reformer (SMR) in Texas.

This press release is available at www.siemens.com/press/PR2019040221GPEN

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. The company is active around the globe, focusing on the areas of power generation and distribution, intelligent infrastructure for buildings and distributed energy systems, and automation and digitalization in the process and manufacturing industries. Through the separately managed company Siemens Mobility, a leading supplier of smart mobility solutions for rail and road transport, Siemens is shaping the world market for passenger and freight services. Due to its majority stakes in the publicly listed companies Siemens Healthineers AG and Siemens Gamesa Renewable Energy, Siemens is also a world-leading supplier of medical technology and digital healthcare services as well as environmentally friendly solutions for onshore and offshore wind power generation. In fiscal 2018, which ended on September 30, 2018, Siemens generated revenue of €83.0 billion and net income of €6.1 billion. At the end of September 2018, the company had around 379,000 employees worldwide. Further information is available on the Internet at www.siemens.com.