



## **Curtiss-Wright Books Record Orders For DeltaGuard(R) Systems**

### **Revolutionary Coke Drum Unheading Technology Provides Increased Safety and Throughput for Oil Refining Industry**

ROSELAND, N.J., Nov. 9 /PRNewswire-FirstCall/ -- Curtiss-Wright Corporation (NYSE: CW; CW.B) has received record orders for its patented DeltaGuard® technology. The DeltaGuard is a revolutionary, fully-automated, inherently safe coke drum unheading system which, in addition to dramatically improving safety, provides significant economic advantages to refiners. Orders include more than 50 complete systems to 10 different domestic and international refining companies worldwide, representing approximately 17% of the total coke drums in the United States, and approximately 8% of the total coke drums worldwide. This product, which was developed by the Company's DeltaValve® division, a unit of the Flow Control segment of Curtiss-Wright Corporation, has become the global standard in the industry.

For oil refinery operators, coke drum unheading has been an inherently dangerous process for decades. The U.S. Occupational Safety and Health Administration (OSHA) recently published an informational bulletin titled "Hazards of Delayed Coker Unit (DCU) Operations" in which it recommends "automating both top and bottom head removal operations to keep workers away from these unprotected areas."

A primary method of refining crude oil into gasoline, jet and diesel fuel requires a process known as delayed coking. Delayed coking is a thermal cracking process achieved through heating crude oil to an extremely high temperature and pumping it into large pressurized drums. This process breaks the heavy crude oil into lighter, more valuable fluids which are vaporized and removed, while the solid, unconverted, coal-like byproduct called "coke" remains in the drum. Due to the extreme temperatures required in the process and volume of the coke, unheading, or opening the drum to remove the coke, has the potential to be one of the most dangerous refinery operations and has been the cause of numerous severe accidents.

"After installing the first DeltaGuard in our Salt Lake City refinery in September 2001, we expedited the installation of the system on all remaining drums companywide, completing this project in December 2003. The DeltaGuard provides significant safety advantages over all other currently available unheading equipment because it eliminates exposure risks to personnel and the atmosphere," said Dale Wilborn, ChevronTexaco El Segundo Coker Projects Manager and Corporate Delayed Coker Best Practices Team member. "In addition to the safety benefits, the DeltaGuard has demonstrated exceptional reliability, achieving an unprecedented 100% up-time operating performance, and has fully achieved all of our project team's goals, desires, and expectations."

"DeltaValve's automated DeltaGuard unheading technology sets a higher standard for safety within the oil refining industry worldwide," said Martin R. Benante, Chairman and CEO of Curtiss-Wright. "In addition to being inherently safe, this innovative system offers the unmatched economic advantages of shorter cycle times and reduced maintenance expenses, and most significantly, the technology required by refiners to process less expensive grades of crude oil."

#### **About Curtiss-Wright Corporation**

Formed in 1929, Curtiss-Wright Corporation (NYSE: CW; CW.B) is the legacy company of Glenn Curtiss and the Wright brothers' pioneering achievements which gave birth to the aviation industry. Today, Curtiss-Wright continues to focus on innovation as a diversified, global provider of highly engineered, technologically advanced products and services for military, commercial, and industrial applications. The Company designs, manufactures and overhauls products for motion control and flow control applications, and provides metal treatment services. Headquartered in Roseland, New Jersey, Curtiss-Wright employs approximately 5,500 people worldwide. For more information, visit <http://www.curtisswright.com>.

#### **About Curtiss-Wright Flow Control**

Headquartered in Farmingdale, New York, Curtiss-Wright Flow Control ("CWFC") is the Flow Control segment of Curtiss-Wright Corporation. Founded in 1951, CWFC specializes in the design and manufacture of highly engineered valves, pumps, electronics and related products for naval propulsion systems. Today, CWFC's sophisticated products are installed on every nuclear submarine and aircraft carrier commissioned by the United States Navy and an integral part of worldwide commercial nuclear power plants, oil and gas processing and refining facilities, automotive and general industrial markets. For more information, visit <http://www.cwfc.com>.

## About DeltaValve

DeltaValve, a division of Curtiss Wright Flow Control, the Flow Control segment of Curtiss-Wright Corporation, is a world leader in delayed coking solutions. Headquartered in South Jordan, Utah, the company designs, engineers, and manufactures a complete line of industrial products for the delayed coking and flow control industries. For more information, visit <http://www.deltavalve.com>.

Forward-looking statements in this release are made pursuant to the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995. This release contains forward looking statements regarding a new product line, the potential increase in market share from the continued successful operation of this new product line, and the ongoing success of this new product line. Such forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those expressed or implied. Readers are cautioned not to place undue reliance on these forward- looking statements, which speak only as of the date hereof. Such risks and uncertainties include, but are not limited to: a reduction in anticipated orders; an economic downturn; changes in competitive marketplace and/or customer requirements; a change in government spending; an inability to perform customer contracts at anticipated cost levels; and other factors that generally affect the business of aerospace, defense contracting, marine, electronic and industrial companies. Please refer to the Company's current SEC filings under the Securities and Exchange Act of 1934, as amended, for further information.

SOURCE Curtiss-Wright Corporation

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