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CBE Chooses CRI's Catalyst and CATSCAN Catalyst Performance Monitoring Solution

CATSCAN is a joint development of CRI and Pavilion Technologies

AUSTIN, Texas — June 9, 2003 — Companhia Brasileira de Estireno (CBE) recently selected CRI Catalyst Company's FlexiCat Blue catalyst, FlexiCat Gold HS catalyst, IronCat catalyst and CATSCAN® catalyst performance modeling system. Both the catalyst and CATSCAN will help CBE increase the profitable production of approximately 120 kilotons of styrene annually.

"We value the technical assistance and knowledge that CRI's team provides," said Paulo Bassique, industrial director for CBE. "With CRI's CATSCAN system we can identify and respond to potential problems faster and more accurately. This means more cost-effective styrene production and ultimately more profitable operations."

CATSCAN combines CRI's catalyst expertise with Pavilion's predictive modeling and performance management technology to enhance catalyst life, improve operational performance and reduce production cost for styrene manufacturers. The agreement includes the installation of CRI's catalyst and the CATSCAN system as part of CRI's technical performance package.

"The CBE installation will demonstrate the added value that an on-site early warning and knowledge-based monitoring system brings to a leading production facility," said Jim Wambaugh, director of CRI's styrene business unit.

CATSCAN uses proprietary models of catalyst performance, real-time reactor information and periodic lab results to continuously predict catalyst performance and lifecycle. CATSCAN's conversion calculation engine allows users to simulate the conversion outcome based upon different input conditions. These features enable CATSCAN's operators to monitor catalyst activity, selectivity and conversion, as well as track other key process variables that affect catalyst performance. CATSCAN also allows users to run different "what-if" scenarios to determine the optimal operating conditions to achieve a given production target.

"Pavilion enhances our partners' solutions with the fastest, most robust predictive modeling technology," said Matt Tormollen, Pavilion CMO. "We work with companies like CRI to give them the ability to create more value for their customers."

CATSCAN delivers the following benefits:

- Enhanced decision making through performance monitoring and simulation
- More accurate forecasting of catalyst life
- Timely and more precise response to potential problems

- more -

PAGE TWO: CRI/Pavilion Complete CATSCAN Sale in Brazil

CRI officially introduced CATSCAN for commercial availability in October of 2002.

About CRI Catalyst Company (www.cricatalyst.com)

CRI Catalyst Company (CRICC) is part of CRI International, the global catalyst technology company of the Royal Dutch / Shell Group. CRICC operates research laboratories, development facilities, manufacturing plants and business units throughout the world dedicated to providing a broad customer base with the most effective and cost-efficient catalysts and technologies. Specific areas of focus include hydrogenation, oxidation, dehydrogenation and environmental catalysts and systems. Fully integrated technical service and support groups further enhance the customer value of CRICC's products, and facilitate creative solutions to the most difficult customer problems.

About Pavilion (www.pavtech.com)

Pavilion Technologies Inc. is the world's leading developer of advanced process control (APC) and environmental compliance solutions for global enterprises. Pavilion combines its cutting-edge technology and industrial domain expertise to return millions of dollars in value daily for more than 350 companies worldwide, including BP, Fonterra, Nestlé, TXU and Weyerhaeuser. Pavilion Technologies Inc. is a privately held company based in Austin, TX with offices serving every region of the world.

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CATSCAN is a registered trademark of CRI Catalyst Company. CRI Catalyst will sell, market and maintain the CATSCAN software as part of its styrene catalyst technical performance package. Pavilion will continue to provide technology updates and support to customers through CRI. To learn more about this product, visit the Web site at <http://www.cricatalyst.com>.