



NEWS RELEASE

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SUBJECT: Elliott Group Revolutionizes the Way Turbine Trip Systems are Tested

Jeannette, PA – March 29, 2016 – Elliott Group has introduced a new pneumatic trip system with partial stroke actuation. The partial stroke pneumatic trip system provides turbine operators with a safe and effective way to regularly test the trip valve without interfering with the turbine's operation or its ability to trip.

Pneumatic trip systems provide a vital safety function for steam turbines. Proper maintenance and testing are necessary to ensure safe and reliable equipment operation. Testing the trip system on a regular basis can mean the difference between the turbine tripping when necessary and catastrophic failure. Elliott's patent-pending system completes a partial stroke of the trip valve within seconds, enabling operators to quickly determine if the trip valve is working properly.

"Our new partial stroke pneumatic trip system is changing the way turbine operators can test trip valves," said William Pacelli, Manager of Industrial Products Engineering. "Aside from an oil-operated trip and throttle valve, other trip systems require the operator to trip the turbine when testing it, taking it offline. As a result, these types of systems are not tested often, if at all. Elliott's new system provides a safe, efficient, and convenient way to test the trip valve without taking the turbine offline."

Elliott's pneumatic trip system with partial stroke actuation is available for new steam turbines and retrofits of existing turbines. Operators can initiate the partial stroke locally or remotely via a distributed control system (DCS). Standard DCS hardware is suitable for either application, providing flexibility to adapt the partial stroke system to any equipment configuration.

About Elliott Group

Elliott Group is a global leader in the design, manufacture, and service of technically advanced centrifugal compressors, steam turbines, power recover expanders and axial compressors used in the petrochemical, refining, oil & gas and process industries, as well as in power applications. The company employs 2600 persons in 40 locations around the world. Elliott Group is a wholly owned subsidiary of Ebara Corporation, a major industrial conglomerate headquartered in Tokyo, Japan. Ebara employs 15,000 people and has sales of US \$5 billion.

For more information, visit the Elliott Group web site, www.elliott-turbo.com.