



PRESS RELEASE

Barbour Stockwell Announces Successful Testing Program

September, 2012

Barbour Stockwell, Inc was the site for testing recently conducted for the Propulsion Instrumentation Working Group (PIWG) to evaluate a multitude of blade tip timing sensors from various manufacturers. PIWG was established in 1995 to cooperatively address critical turbine engine-development test instrumentation. BSi has been providing test services and equipment for turbo machinery since the dawn of the jet age.

During the week of September 17th, 2012 five vendors brought their tip timing sensors for evaluation on a common test stand. The test stand consists of a BSi Model 7000 test turbine, associated rigging, AGP Test Rotor, and TC-3 control software for precise speed control.

The test stand was operated up to 10 krpm for tip speeds to 1400 ft/sec. Critical process parameters; speed and shaft vibration, were monitored and stored continually via our TC-3 control software @ 1hz, while critical sensor data was recorded in real time on a dedicated Data Acquisition System. The time stamp was synchronized between the PC and the Data acquisition system so the files could be merged for data reduction. Uniform test conditions were assured by the BSi's Full Authority Spin Test (FAST) system. Test speeds, were held to within 2 rpm of target.

All testing was successfully completed on schedule. Team planning and coordination played an important role in assuring the timely arrival of product, personnel and equipment. The USAF and P&W were responsible for much of the logistics and planning.

BSi is proud to announce AS9100 certification for Spin Testing Services. BSi is a full service company with the latest engineering prowess, complementary machine shop and balancing center for rapid project turn around.

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