



A Division of B&D Industrial

ENERGY INDUSTRY

B&D TECHNOLOGIES IS THE GO-TO EXPERT FOR REPLACING VINTAGE ABB DC DRIVE

CUSTOMER PROFILE:

An international balancer and test stand manufacturer

THE PROBLEM

This customer needed to replace a vintage ABB DC drive on a spin testing machine designed for testing gas turbine power stages. The original design was done in the 1980s with a BBC Veritron drive, which is one of the predecessors of the modern ABB DCS800. The application had some very specific design challenges, including:

- No access to the programmable logic controller (PLC), which meant the new DCS800 needed to completely mimic the original Veritron in performance and control
- The drive was 600HP running a customized DC motor with a maximum speed of 3,600 rpm. However, the machine had several speed-up belt systems turning the turbine section in excess of 10,000 rpm.
- The acceleration and deceleration was .01 seconds
- The adjustable torque limit had to be mirrored in both directions of change
- The internal speed controller had to be desensitized enough to allow the original motion controller to operate without interference from the drive tuning

THE SOLUTION

ABB, a premier global manufacturer, recommended B&D Technologies as the Authorized Value Provider (AVP) to do this job based on our knowledge and experience.

Atlanta-based Cleveland Electric worked with B&D Technologies' Applications Engineering Group (AEG) on the retrofit based on our redesigned schematic, which we created prior to the start of the job. The demolition and reinstallation required only two days and were done without any issues or concerns. From start to finish, the job was completed in four days. All of the customer's engineers were pleased with the smooth experience and the effective solution.

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