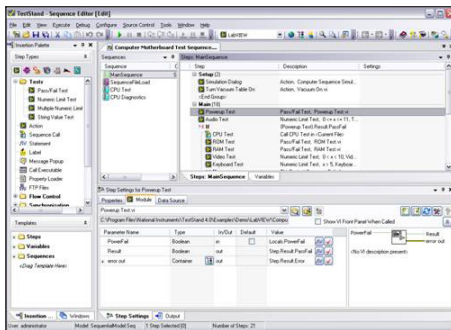


The Challenge

A global defense contractor needed to quickly implement a manufacturing test process for a new power inverter system coming to market with unexpected demand. They needed to perform production dielectric/highpot, in-circuit and functional testing. In addition, test time needed to be reduced from several hours to 20 minutes per unit. There was a very limited time frame to complete these improvements.

The Solution

Working closely with the client's engineering team, PVI Systems designed a new test sequence for production testing. Hardware test stands were controlled with National Instruments devices. The main software components for controlling the hardware were developed using LabVIEW. Test processes were controlled using TestStand sequences developed by PVI to the customer's specifications.



System Features

- On-site rapid response
- Test planning support
- NI TestStand sequence development
- Device communication via CAN
- NI 5114 digitizer
- NI Current, Voltage, Digital I/O and Relay Modules
- NI cDAQ-9178 chassis
- AC and DC contactors and loads
- Custom instrumentation via RS-232 serial commands
- Agilent 34401a DMM
- High Power DC supply



PVI worked alongside the client's engineering team to develop the test systems and processes ahead of the manufacturing schedule. A second manufacturing line was later added to reduce downtime and provide additional capacity.

Contact us for more information about custom-engineered Data Acquisition, Machine Vision, Process & Motion Control, or Automated Test & Measurement systems.

