

APPLICATION BRIEF

2020

TEST SYSTEM RETROFIT

Brief Description:

Emerging Technologies, LLC. was called upon to retrofit an existing engineering style test system into a production floor style system.

The existing system was disassembled and re-fitted to a previously used Emcor, 19" rack-style, donor enclosure provided by the customer. This effort required rack mounting of the existing Chroma 6408 AC Power Source and Agilent 34401 meters. Additionally, the existing computer system with National Instruments I/O was moved to the donor enclosure using internal rack shelving. The majority of the existing wiring was re-applied. New front panel mounted fuses were incorporated.

Once the engineering style test system was transferred to the new enclosure, the system was powered on verifying the existing National Instruments LabView application remained functional. The system was delivered to the customer and verified with operations personnel.

Emerging Technologies' custom test systems experience was vital to the retrofit since the system was only available for one day for the transformation.

Customer Benefit:

The customer was able to convert an existing engineering style test system for transfer to the plant floor with minimal expense. The re-application of an existing enclosure as well as transfer of the existing test hardware kept the cost to a minimum.



ET Responsibilities:

- Functional Specification Generation Design / Engineering
- ✓ Fabrication
- Programming – Software
- Programming – Firmware
- Circuit & PCB Design
- ✓ On-Site Commissioning
- Post Commissioning Support
- Other

Technologies:

- Embedded Computers
- Microcontrollers
- ✓ Visual Software
- ✓ Control Software
- Data Acquisition
- ✓ Computer Based Control
- ✓ Communications – GPIB
- System Integration
- Other

Special Features:

- ✓ Front Panel Mounted Fuses.
- ✓ Front Door Computer Access.
- ✓ Vented Enclosure w/Blower.
- ✓ Front Panel Viewable Instruments.