Detector Support Group

We choose to do these things "not because they are easy, but because they are hard".

Weekly Report, 2020-12-09

Summary

Hall A – SoLID Magnet Controls

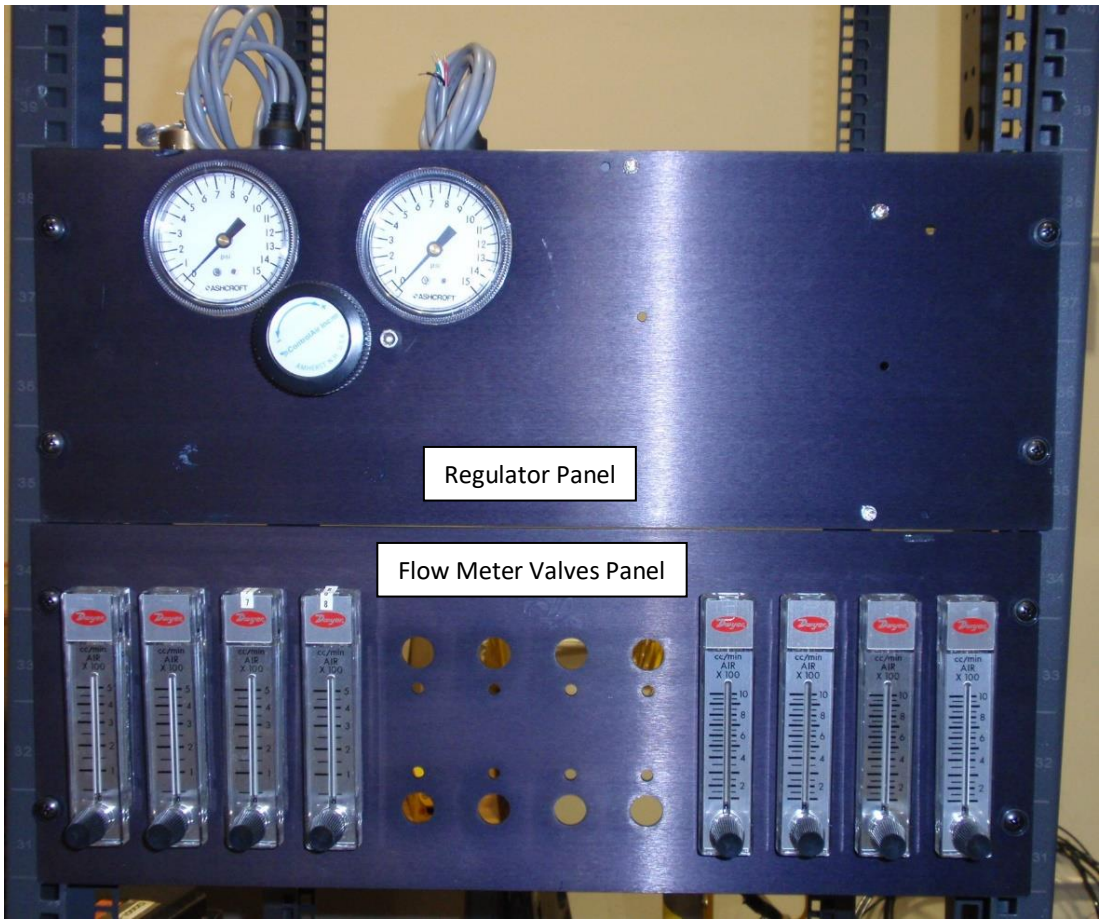
Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, Marc McMullen

- Generated using AutoCAD *"SoLID PLC I/O Remote A, Slot 2 Wiring Diagram"*
- Tested *CCR-Expert* and *JT Valve Page* CSS-BOY screens

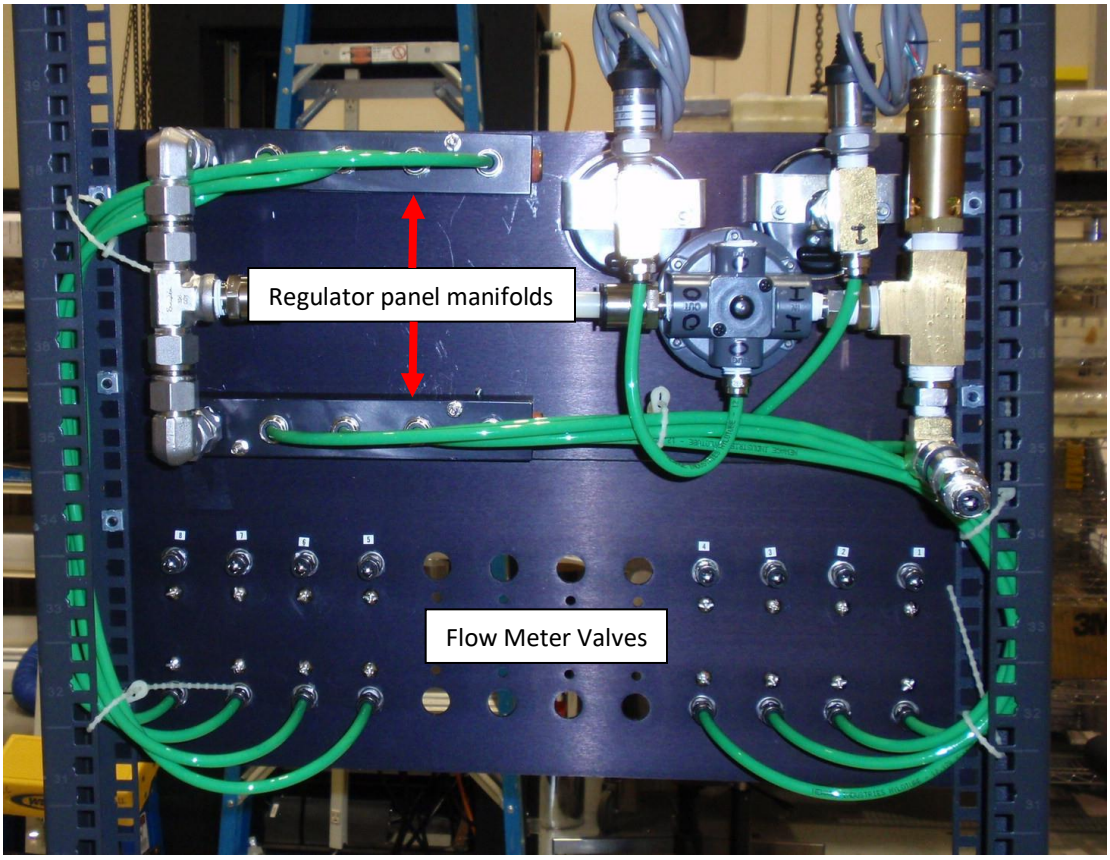
Hall A – GEM Detector Gas Distribution System

Peter Bonneau, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen

- Placed prototype BigBite GEM gas distribution panel in rack and connected tubing from the manifolds to the flow meter valves



BigBite GEM gas distribution panel installed in rack



Rear view of the prototype BigBite GEM gas distribution panel

Hall B – SVT

Peter Bonneau, Mindy Leffel

- Connected all cable disconnect sets (24) to the National Instruments cRIO crate of the SVT hardware interlock chassis

Hall C – NPS

Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, George Jacobs, Mindy Leffel, Tyler Lemon

- Looked into available software for integrating the Keysight model 34980A temperature scanning system to the hardware interlock system
- Developing hardware interlock system design files (e.g. fault condition flowcharts, hardware configurations, and EPICS variables)
- Analyzing CAEN HV module trip test data (current and voltage)
  - ✶ Analyzed data for 33 modules; one module non-functional
- Generated 540 of 1080 PMT Settings screens
- Fabricated 1050 of 1100 HV divider cables