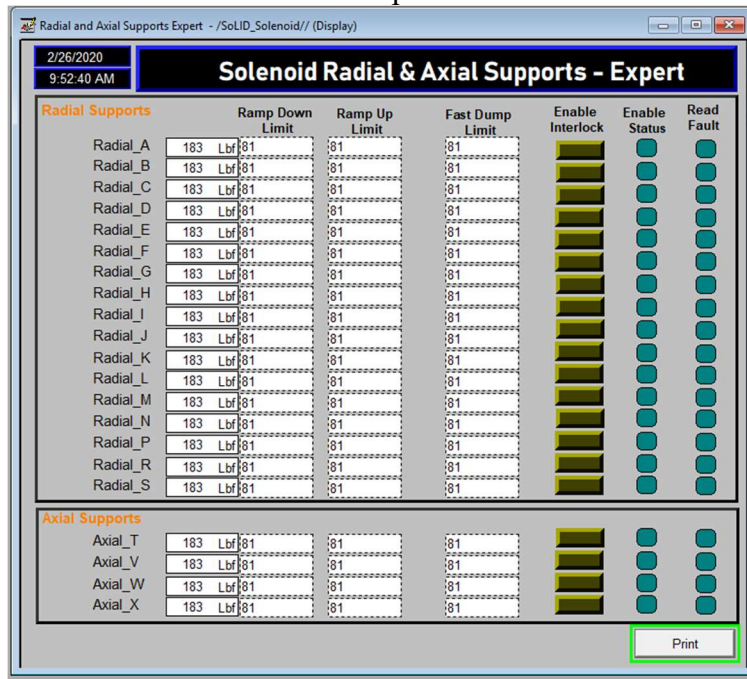


### Summary

#### Hall A – SoLID Magnet Controls

- Constant Current Source pcb has been ordered, expected delivery by 3/6/20
- Completed first version of *Axial and Radial Supports – Experts* HMI screen
  - ★ Screen allow the input of the thresholds for two levels
    - One level is for a controlled ramp down the other for fast dump



SoLID Solenoid Axial and Radial Supports – Expert HMI screen  
Displayed values are randomly generated by DSG PLC

- Wrote PLC code to monitor temperature sensors located in the heat exchanger
- Modified PLC layout
  - ★ Added heat exchanger signals
  - ★ Suggested adding new remote # 2 PLC chassis for extra I/O modules required
- Developing Rh-Fe Temperature Sensor Wire Diagram drawings
  - ★ Changed name for the drawing to *Magnet Temperature Sensor Wire Diagram*, since magnet has different type of sensors; e.g. diodes
  - ★ Modified signal conditioner inputs and outputs

#### Hall A – BigBite Shower Calorimeter

- Terminated and tested the remaining five 34-contact coax ribbon cable to twisted-pair ribbon cables

#### Halla –GEM Gas System

- Procured gas distribution system components
- Got final part number for mass flow meter to be ordered



# Detector Support Group

## Weekly Report, 2020-02-26

### Hall A BigBite Module Wrapping

- Completed three of 64 blocks (~5% complete)
  - ★ Blocks cleaned and wrapped with Mylar and Tedlar
  - ★ Tedlar wrapping reinforced with electrical tape

### Hall B Magnets Controls

- Debugging problems with Rockwell software
  - ★ Software either extremely slow to launch or has errors when running
  - ★ So far, found that it only seems to happen on computers that use cadlm2 as the server

### Hall B MVT

- Increased Forward Micromegas Tracker gas flow differential limits to reduce alarms caused by weather

### Hall B - SVT

- Waiting for networking changes in order to use PXE boot (netboot) for controllers

### Hall C – CAEN HV Hardware Testing

- Continued with ramp up ramp down test with load
  - ★ Completed second pass on crate # 3

### Hall C – Magnet Screen Conversion

- Completed *Q2 PSU Setup* and *Q3 PSU Setup* screens
- Created a new library for the LabVIEW EPICS server used to test the Hall Status CSS-BOY screens
- Researched best way to implement screenshot button in CSS screens
  - ★ Screenshot interfaces found are operating-system dependent
  - ★ Researching Eclipse commands to perform screenshot to make button work regardless of whether screens are run from a Windows or Linux PC

### Hall C Polarized 3He Target

- Re-soldered five RTDs

### Hall D – WEDM

- Updated WEDM screens to better reflect CSS-BOY screens
  - ★ Changed gate valve status on the Solenoid vacuum screen from 1/0 for open/closed to text “OPEN”/“CLOSED”
  - ★ Removed unneeded indicators from Solenoid Coil 3 and 4 Temperatures screens
  - ★ Corrected state colors for Fan Control status on ComCal Environment screen
  - ★ Added coolant flow indicator to ComCal Chiller screen
  - ★ On DIRC Environment screen, Liquid Levels indicators changed from Boolean to text indicators



# Detector Support Group

## Weekly Report, 2020-02-26

### DSG R&D – MSELV Chassis

- Added sbRIO system monitoring loop and network shared variables for monitoring of sbRIO memory usage and on-board temperature sensors
- Began re-adding web interface to sbRIO
  - ★ Web interface removed for sensor readout debugging to eliminate it as source of Cernox readout problems
- Started MSELV RMC schematic

### DSG R&D – EPICS Data Logger

- Used Grafana to generate a time series plot from logged data for two RICH PVs used to monitor temperature