

SoLID Magnet Controls System Meeting Minutes

Date: March 2, 2022

Time: 11:00 – 12:00

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen

1. Cable fabrication

Pablo Campero and Mindy Leffel

1. Completed 37 of 64, 100' cables
2. Reviewed connectors needed for heat exchanger and current lead temperature sensors
 - Heat exchanger connector: 10-pin vacuum feedthrough, part number 809CI0094-02-CF. Ref. drawing A00000-16-03-0507
 - Current leads connector: Amphenol connector part number PT06E-8-45-SR. Ref. drawing A00000-16-03-0406
3. Looking for connectors to connect old load sensors cables with new 100' cable

2. Instrumentation rack debugging

Pablo Campero, Mindy Leffel, and Marc McMullen

1. Constant current source board spare for PT-102 temperature sensor will be placed next to racks
2. Ordered testing plugs to facilitate testing of instrumentation connected to the terminal blocks
3. Electric ball valve #8 is under test
 - Marc McMullen will look into required resistor needed for valve position readout

3. HMI screens development

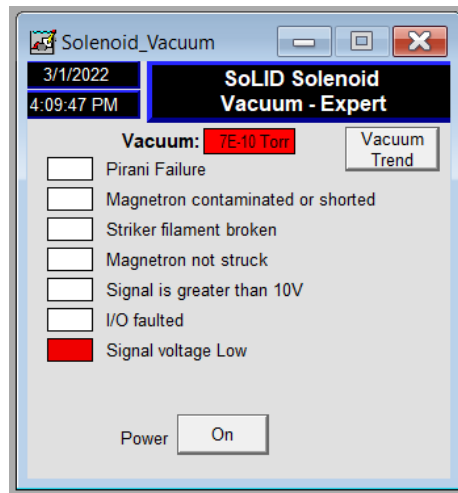
Pablo Campero

1. Added trends for all rhodium-iron, diode, and PT-102 temperature sensors
 - Created *Solenoid Trend* HMI screen; added code to enable screen to be used for all trends; configured automatic scale to plot signals
 - Modified and configured *CCR-Expert*, *Coil and Radiation Shield*, and *Turret Temperatures* HMI screens so that trends can be accessed by clicking the readout box for each temperature signal
 - Tested trend plots for each temperature sensor



Example of *Solenoid Trend* HMI screen for temperature sensor during testing

2. Added trends for pressure and vacuum signals in *CCR- Expert* HMI screen
3. Completed *Vacuum-Expert* HMI screen
 - Monitors gauge limit faults and PLC channel faults
 - Screen is accessible from *CCR-Expert* screen and from *Menu* screen



Solenoid Vacuum HMI screen