SoLID Magnet Controls System Meeting Minutes

Date: February 3, 2023
Time: 11:00–12:00

Attendees: *Aaron Brown, Peter Bonneau, Pablo Campero, Brian Eng, Tyler Lemon, and Marc McMullen*

1. HMI screens

Pablo Campero

1. Added and corrected units for variables displayed in some trend screens
2. Modified *Solenoid CCR-Expert* screen
   - Added dotted lines to show control variables for JT2, JT9, and JT10 valves
   - Changes for the helium supply line to JT7 valve and the addition of the helium return line from current lead pot supply will be based on the P&I diagram, which is being updated by Whit Seay
3. Swapped the location of indicators for temperature sensors TS8 and TS10 on *Solenoid Neck Temperature* screen

2. PLC alarm handler and email sender

Pablo Campero

1. Added 26 digital alarms and email notification for all interlocks
   - Tested alarms
   - Added VBA code to automatically pop up *Solenoid Interlock* HMI screen when any alarm is present
2. Added email notification to experts when cooldown stage changes
   - Added cooldown, stop cooldown, and long term stages
3. Added email notification for when there is a change in liquid levels power status

3. Configuring PHYCAD56 computer

Pablo Campero

1. Delivered computer to computer center for rebuild needed for repurposing and subnet change; Rebuild completed
2. Will add FactoryTalk View software to computer to access HMI system as client

4. Other Topics

All

1. Monitored cooldown progress
   - Helium and nitrogen temperatures changed this week in the magnet coil and radiation shields. Helium average temperature for coil shell ~274 K

Fig.1. coil shell temperature average over the past 10 days