## **Solenoid EPICS screens Meeting**

Date: 11/23/2016 Time 14:30 – 16:000

Attenders: George Biallas, Pablo Campero, Ruben Fair, Wesley Moore, Renuka Rajput-Ghoshal

### I. Presentation of the Solenoid EPICS screens progress:

- 1. Drawings from the vendor ETI will be used to display location for some of the temperature sensors in the Solenoid.
- 2. Wesley Moore presented model screens, for Vacuum, Fast\_Daq, Magnet Power Supply and Helium Temperatures.
- 3. Renuka Rajput-Ghoshal and Ruben Fair assigned tab names for the Solenoid Helium temperature screens.
- 4. We will require a main screen that shows the entire Solenoid cryogenics system including the instrumentation in the Solenoid Service Tower.

### II. We will require a Solenoid Forces screen to display the main Load Cell components.

- 1. Wesley Moore will add a screen with the Load Cells in the radial and axial positions.
- 2. Cold Mass weight will be added in the same screen.

# III. For the Vacuum EPICS Screen, we defined vacuum PVs, which can generate an alarm if they are out of bounds.

- 1. George Biallas proposed that the Combined Gauge, CG8606, be monitored by the Solenoid PLC controller.
  - i. The PLC controller will send the data to EPICs, which will alarm if there is an error.
- 2. The ESR signal will be shown in the same Solenoid Vacuum screen.
- 3. Wesley Moore will correct some of the tag names displayed in the vacuum screen.

#### IV. Remaining work for the Solenoid Quench Detection screens:

- 1. Renuka Rajput-Ghoshal and Ruben Fair will define the schematic to make the representation of the Solenoid Voltage Taps.
- 2. Probir Ghoshal and Renuka Rajput-Ghoshal will calculate Solenoid Voltage Taps' comparator (differences between voltage taps) values.
  - i. Once I get these calculations for the Voltage Taps differences, I will program the PLC and give the links to Wesley Moore.
  - ii. Wesley Moore will add the Voltage taps and Quench Detection screens with all this information.
- V. We discussed the levels for the Solenoid alarms which will be displayed in the EPICS screens.
- VI. We agreed that we need a Solenoid Analyzer screen to make the analysis of the most important PVs, like we do for the Torus.