Hall B Solenoid Vacuum- PLC programming

Date: January 20, 2017
Time: 09:00 – 10:00

Attendees: George Biallas, Pablo Campero, Renuka Rajput-Goshal

1. Discussed status of the updates for the Solenoid Vacuum System.
   1.1. Current documentation (Solenoid Insulating Vacuum) was presented to Renuka Rajput-Goshal.
   1.2. The solenoid vacuum systems will be controlled by hardware controller TPG36X PFEIFFER.
   1.3. Pablo Campero completed the PLC programing to monitor four signals required for the solenoid vacuum system.
      1.3.1. The signals that will be monitored by the PLC controller are: CG8606, CG8600TB, TB8600 and PV8600.
      1.3.2. It was confirmed that the vacuum rates set for solenoid vacuum system are same as Torus magnet which are for 1 [hr] and 10 [hr] average.
   1.4. It was verified that the model for the vacuum gauges (CG8606 and CG8600) are PKR 361 PFEIFFER.

2. The status of the instrumentation for the solenoid vacuum system needs to be updated.
   2.1. Pablo Campero will contact to Scot Spiegel to confirm the previous proposal for the location of the Solenoid vacuum panel in the solenoid local rack.
   2.2. We need to confirm if the 24 VDC source for the vacuum gate solenoid valve will be used from the RHINO power supply (there is a channel spare) as it was proposed by Pablo Campero.
   2.3. PLC I/O layout channel for the signals added have to be verified to match with the drawings.
   2.4. The drawings for the instrumentation will be generated and modified by Scot Spiegel.

3. We agreed to make a test to check the solenoid vacuum alarms in EPICS
   3.1. It was decided to generate dummy values in the PLC controller and have a bad vacuum readings in the input signals for the main vacuum gage and in the turbo pump speed with the purpose of generating alarms, that will be handled by EPICs.
   3.2. George Biallas proposed using the same thresholds limit for the vacuum as the Torus magnet.
   3.3. Pablo Campero will contact to Wesley Moore to set up the test and they will let Renuka Rajput-Goshal know about the status of this test.
   3.4. A final full test for the vacuum alarms will be set after complete installation of the vacuum instrumentation.

4. The final documentation for the solenoid vacuum system will be located in Document Control
   4.1. The Solenoid Insulating Vacuum Narrative document will be located in Document Control after review by George Biallas.