

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.