Solenoid –Review of P&ID and Related I&C

Date: May 25, 2017
Time: 14:00 – 15:30

Attendees: Pablo Campero, Ruben Fair, Probir Ghoshal, Joseph Matalevich, Wesley Moore, Renuka Rajput-Ghoshal, Bruce Reinhart, and Scot Spiegel

1. Revised updates on *Hall B Solenoid Cryogenics P&I Diagram*
    - 1.1. Verified PT-100 temperature sensors added on the Diagram.
        - 1.1.1. Checked correct Signal names for TP8680 (Temperature Sensor on relief valve) and TP8675 (Temperature sensor for Vaporizer).
        - 1.1.2. Verified location of the temperature sensors in the diagram.
    - 1.2. Verified correct signal name for main vacuum gate valve PV8600
        - 1.2.1. Noticed that *Vacuum Pump Schematic B00000-09-601* has different name assigned for this signal.
        - 1.2.2. It was agreed that correct signal name is PV8600.
        - 1.2.3. Pablo Campero will contact to George Biallas to make the appropriate corrections.

2. Checked that all required actions have been completed to the addition of the PT-100(TP8680 and TP8675) temperature sensors.
    - 2.1. Verified addition of the sensors to the PLC code; task completed by Pablo Campero.
    - 2.2. Verified addition of the sensor to monitor on the *Solenoid Helium SST* EPICS screen; task completed by Wesley Moore.
    - 2.3. Installation of the sensors was completed by Scot Spiegel.

3. Updated status of Solenoid instrumentation.
    - 3.1. Solenoid valve SV8576BY was already ordered, it will arrive in a few weeks to be installed.
        - 3.1.1. Scot Spiegel is working on the installation of the relay box for the solenoid valve.
    - 3.2. Agreed installation of heater HTR8672 will take place on the upcoming weeks.

4. Discussed Interlock *Thresholds_Solenoid_May_23_2017_v7* spreadsheet.
    - 4.1. Revised each tag name associated to each interlock signal in the spreadsheet.
    - 4.2. Verified that spreadsheet matches with the updates on the *Solenoid Interlock Status* EPICS screen.
    - 4.3. Pablo Campero will confirm whether *EPICS Watch Dog Fail* signal is generating a Controlled Ramp Down in Torus or this is just a Warming.
        - 4.3.1. *Solenoid Interlocks Status* screen is currently displaying indicator under Controlled Ramp Down column.
        - 4.3.2. Agreed that Solenoid will take the same logic to interlock this signal as Torus does.
    - 4.4. Ruben Fair will confirm threshold values for the *Current Limit (Hard_Coded*) Interlock.
    - 4.5. Pablo Campero will update the mentioned spreadsheet.