**Hall A Gas Distribution Meeting**

**Date: 03/06/2020**

**Time: 2:00 – 2:20**

*Attendees: G. Jacobs, M. McMullen, B. Eng, A. Brown, P. Campero, B. Sawatzky, J. Segal, N. Liyanage*

1. Gas Distribution Panel (G. Jacobs, J. Segal, B. Sawatzky)
   1. George can give an update on the procurement of the mechanical components.
      1. George gave a presentation on the gas system component procurement. He has ordered and received most of the gas distribution components he has sent for procurement (rotameters, manifolds etc...see presentation). He has pre-assembled some of the components for installation on the gas distribution system.
         1. The presentation included the most recent P&I diagram, he has added a manual ball valve to isolate the distribution panel from the mix gas supply. He has also added a relief valve (140 scfm at 25 psi) to protect the flow sensors downstream.
         2. George displayed some of the nylon tubing which will be used in the design. Jack took a sample of the tubing for testing. **Brad and Jack have authorized the procurement of 3000 ft. of nylon tubing for the distribution panels**. This should be enough for both systems.
   2. Jack and Brad can provide updates on the location of the distribution panels so the DSG can adapt the current design to fit in the space/location.
      1. Brad and Jack are working with a designer to finalize the location and mounting of the two gas distribution systems. The location and mounting will determine the form and physical size of the system. They will have the next update by the beginning of April.
2. Flow Read-back (M. McMullen, B. Eng)
   1. Marc can provide an update on the status of the procurement of the flow sensors.
      1. 60 Honeywell Zephyr flow sensors have been requisition. The requisition is signed and a buyer has been assigned.
   2. Brian provide information on a proposed method of multiplexing the sensor signals for read-back.
      1. DSG is designing a PCB to support 8 channels of flow sensors. The preliminary schematic should be ready for review within two weeks.
3. GEM detector progress for SBS/BB (K. Gnanvo, N. Liyanage, E. Cisbani)
   1. An update on the timeline for the initial testing of the distribution system with read-back should be discussed. Currently, the plan is to test the systems in the EEL and Test Lab in June, with a more extensive test planned for September.
      1. Nilanga, Kondo, and Evaristo are working on a time line for testing the distribution system. Some details may be available next meeting (April).
         1. The UVA GEM assembly team would like to test the distribution system in the EEL when it is completed.
         2. INFN may need to wait until the detector is in a better location than the assembly room in the Test Lab to test the distribution system.