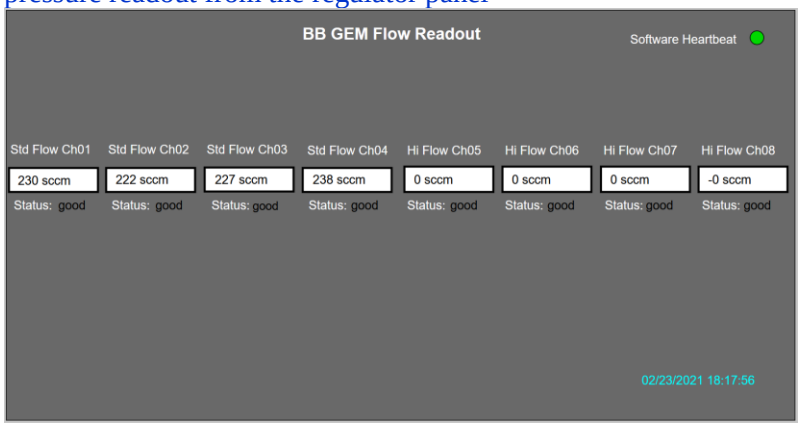
DSG-GEM Meeting Minutes

Date: February 23, 2021
Time: 9:30 – 10:15

Attendees:, *Aaron Brown, Pablo Campero, Brian Eng, Kondo Gnanvo, George Jacobs, Tyler Lemon, Marc McMullen*

1. Marc McMullen upgraded the prototype WEDM display to include a software heartbeat indicator and a time stamp; he is preparing to convert the prototype to the operational WEDM, which will include pressure readout from the regulator panel



2. The prototype gas distribution system was installed and is supplying 220–240 sccm/channel of Ar/CO_2 gas to the four channels of the back layer of the BigBite GEM detector; operates as expected
    2.1. The back layer GEM is currently taking data

3. INFN installed two layers of GEM detectors and is currently purging them with nitrogen; after completion this week, detectors will be connected to two high flow channels of the DSG gas distribution system
    3.1. Two INFN front layers will be installed in approximately six weeks, completing the BigBite GEM detector

4. The BigBite system will be moved to Hall A for installation in mid-to-late May

5. George Jacobs completed assembly of three panels—regulator, flow meter valve, and manifold—for the Super BigBite gas distribution; leak-tested the regulator panel

6. Super BigBite GEM layer installation on the detector frame will start in mid-March, with three UVA layers (standard flow) installed by the end of March
    6.1. To support three UVA layers (12 standard flow channels), two of the six gas flow sensor chassis will need to be constructed and installed

7. The GEM group requested that DSG develop a gas distribution system to be used during the initial building of BigBite and Super BigBite and during maintenance after commissioning, possibly an eight-channel, nitrogen system.
    7.1. George Jacobs suggested a small, portable system could be designed using the same concept as the BigBite distribution system, which has four standard and four high flow channels

8. Holly Szumila-Vance is now supervising the INFN GEM installation