

DSG-GEM R&D Meeting Minutes

Date: March 15, 2021
Time: 11:00 – 12:00

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Assembly of Super BigBite Spectrometer's supply gas flow chassis George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen,

1. Assembly of the first of six gas flow chassis, based on the system P&I diagram, has started
 - Chassis will have two high flow and six standard flow channels

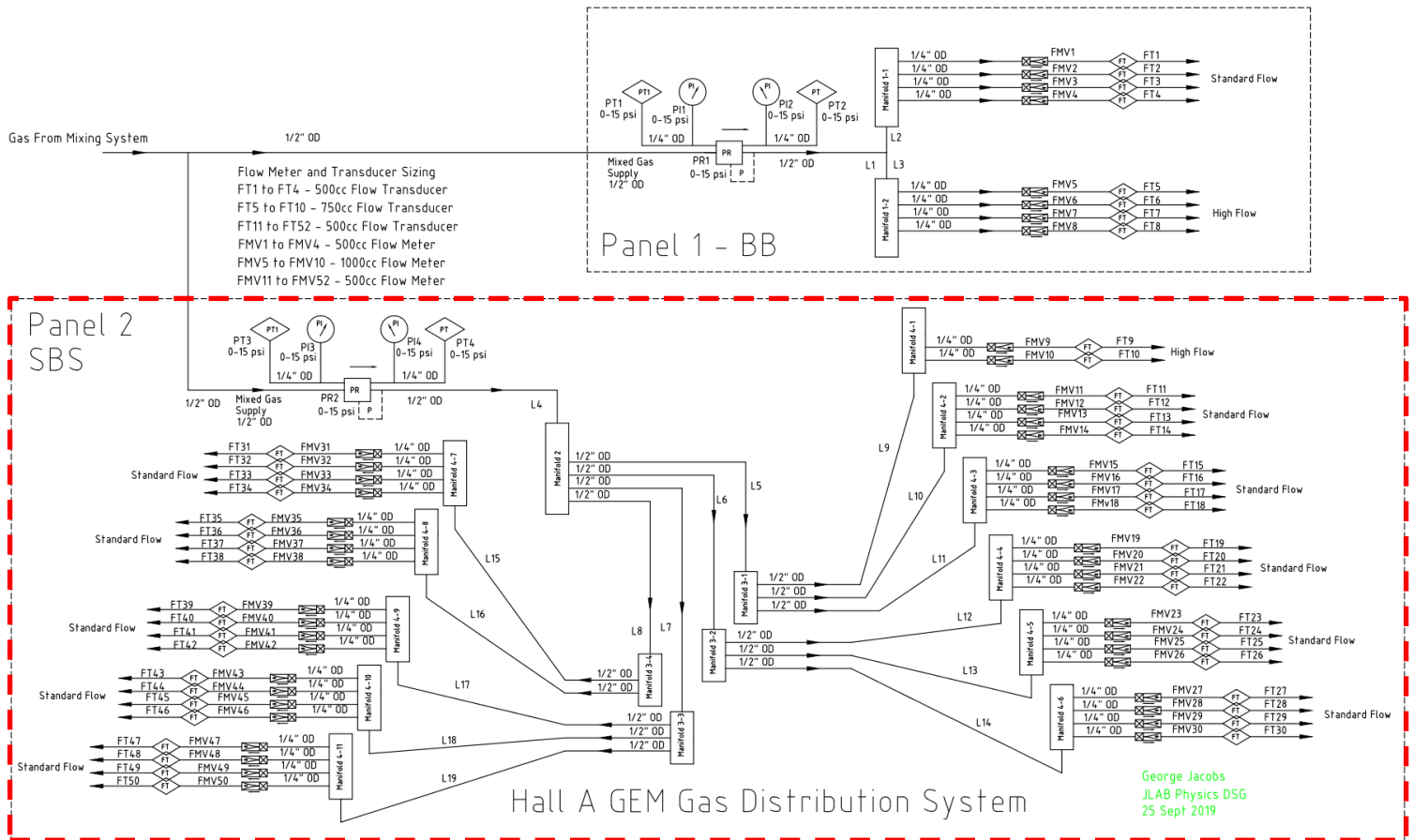
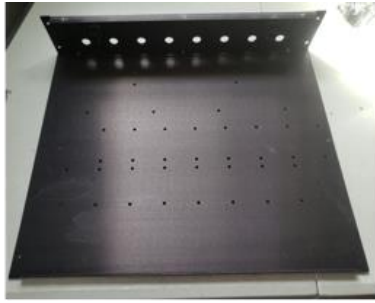


Figure 1. DSG-designed GEM gas distribution system P&I diagram, red dash-lined box shows SBS system

- Figure below shows assembly sequence



1. Chassis base and back assembled



2. Multiplexer installed



3. Cable management installed



4. First sensor installed



5. Side and front panel installed with gas connections and lines



6. Initial gas line installation



6. All channels installed with gas lines trimmed to length

2. Exhaust gas flow chassis

Brian Eng, Mindy Leffel, and Marc McMullen,

1. High flow sensor boards fabricated
2. Two flow sensor chassis assembled, two sensors per chassis
 - One chassis for standard flow (400 sccm)
 - One chassis for high flow (750 sccm)
3. Developing software to read and display exhaust flow sensors