

DSG-GEM Monthly Meeting

Date: March 30, 2021

Time: 09:30 – 10:30

Attendees: Peter Bonneau, Brian Eng, George Jacobs, Sean Jeffas, Tyler Lemon, Marc McMullen, Anu Rathnayake, Brad Sawatzky, Holly Szumila-Vance, and Ezekiel Wertz

1. BigBite gas distribution in TEDEF

George Jacobs, Mindy Leffel, Brian Eng, and Marc McMullen

1. Six channels are flowing gas—four standard flow and two high flow
2. Conducted a test on 03/30/2021 to check the gas distribution system
 - High flow channels ~550 sccm
 - Standard flow channels ~350 sccm

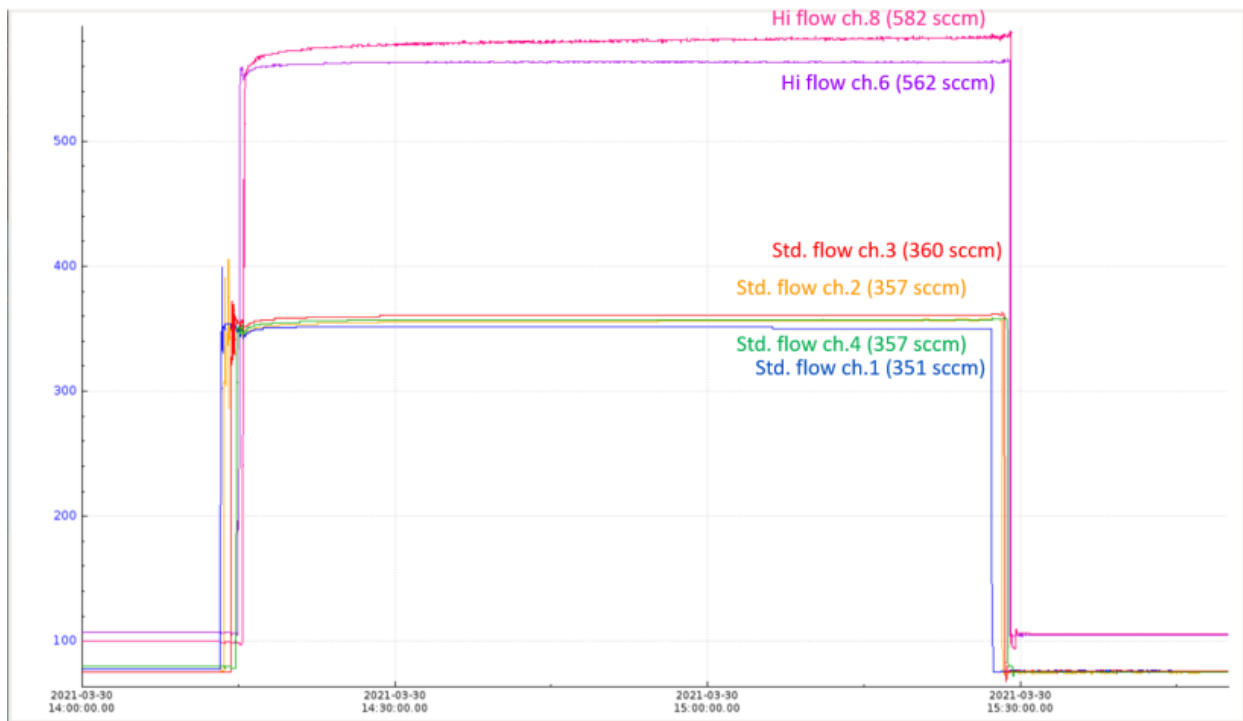


Figure 1. MYA plot of the BigBite flow test. All four standard flow channels are set to ~350 sccm. Two high flow channels are set to ~550 sccm. The test was conducted for an hour.

3. Exhaust flow readback prototype
 - Constructed two gas flow readout chassis with two readout sensors in each, and one multiplexer chassis with one multiplexer
 - GEM group requested that overpressure safety measures be used during the testing of the prototype using bubblers that they will provide
 - A diagram that includes bubblers and Magnehelic gauges will be generated

2. Super BigBite gas distribution in EEL

Brian Eng, George Jacobs, Mindy Leffel, and Marc McMullen

1. Completed construction of two of six gas flow sensor chassis to be used
 - Will begin software testing this week
 - Will begin installation of distribution system rack in two weeks
2. GEM group reported that assembly of the SBS detector in the EEL clean room has been delayed due to an issue with the front end electronics

3. DSG designed maintenance gas distribution chassis

George Jacobs and Marc McMullen

1. Started development of the maintenance chassis
 - Completed fabrication drawings of the front panel; will be reviewed this week