

## DSG-GEM R&D Meeting Minutes

**Date: January 25, 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. George Jacobs tested all three regulators purchased for the GEM gas distribution system; all had leaks from the relief circuit
  - 1.1. Replaced regulator with one without a built-in relief circuit and leak tested the panel, which was gas tight
  - 1.2. George Jacobs procured three regulators without built-in relief circuit, which is enough for the system plus a spare
  - 1.3. George Jacobs reinstalled the regulator panel in the prototype gas distribution rack and connected to the four high flow channels that are not currently being used
  - 1.4. All gas lines of the regulator panel were changed to polyethylene
  - 1.5. Marc McMullen informed the GEM group that the UVA GEM needs to be reconnected to the four standard flow channels to test the system
2. Brian Eng developed Python code to read the pressure transducers installed on the regulator panel; Marc McMullen will integrate the code into the prototype flow readback Python software and add pressure readback to the monitoring software (WEDM and CSS Phoebus)
3. Marc McMullen developed a flow monitoring web application using WEDM

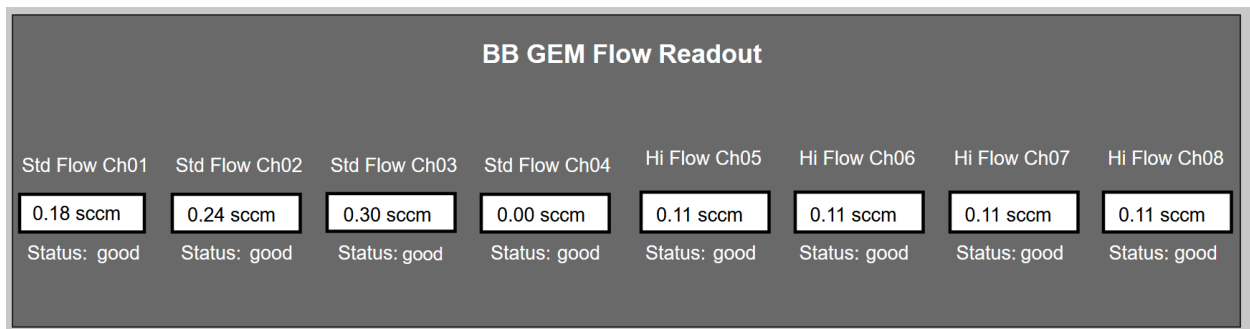


Figure 1. WEDM webpage to monitor GEM flow readout

4. Cardinal Machine should deliver the final prototype enclosures for the exhaust gas flow sensors by 1/29/21