

DSG-GEM R&D Meeting Minutes

Date: February 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. Marc McMullen ordered a Raspberry Pi expansion board, which will provide connectivity to the reassigned I²C bus channels for the pressure transducers, level shifter, and supporting pull-up resistors
2. Purchase orders for the cable management conduits and spacer panels have been sent to the vendors
3. Marc McMullen received a second I²C pressure transducer from Brian Eng and successfully wrote sequencing code to acquire values from both pressure transducers; the values will be assigned to the appropriate process variables, which will then be available for display locally or remotely
4. George Jacobs started labeling the four flow meter valve panels for the Super Big Bite gas distribution
5. Marc McMullen will continue additional upgrades to the Raspberry Pi software, including a system heartbeat to indicate that the program is running and a date time stamp display for the WEDM monitoring page
6. Cardinal Machine delivered the final four enclosures that were machined to house the exhaust system gas flow sensor boards and multiplexer