

DSG-HALL B ALERT Meeting

Date: February 21, 2024

Time: 09:45 – 10:00

Attendees: Brian Eng, Marc McMullen, and Bob Miller

1. ALERT gas controls

1. The pressure transmitters and solenoid valve are in hand
2. Mass flow controllers are due in two weeks
3. Marc will use a DSG test stand cRIO for the controls in the EEL building setup
4. Marc will start developing LabVIEW code next week

2. Procurement

1. Marc will purchase two-conductor (22 awg) cable for the controls
 - Pressure transmitters and solenoid need two-conductor cable
 - Bonus project cable lengths will be used to determine the total spool size

3. Project development

1. The Bonus + Radial Time Projection Chamber (RTPC) detector gas panel has been relocated to EEL 126
 - Hall B will start modifying the panel to convert the RTPC supply and exhaust lines to match the ALERT piping and instrumentation diagram
2. Bob is researching bubblers for the system
3. Exhaust pressure source is still be determined
 - Bob is testing a small DC fan and diaphragm pump using an AC relay
 - Both can be controlled via a cRIO relay module