

DSG-HALL B ALERT Meeting

Date: December 14, 2023

Time: 11:00 – 12:00

Attendees: Aaron Brown, George Jacobs, Tyler Lemon, Marc McMullen, Bob Miller

1. P&I diagram review

1. Bob reviewed the flow path of the [ALERT drift chamber gas supply system](#)
 - The first page shows the gas supply tank locations for the BONUS target and ALERT mixed gas supply
 - The second page shows the supply and gas control elements to the target, buffer, and drift chamber
 - DSG will work on the mixed gas supply and exhaust controls (magenta elements on the green line) on page 2
 - The supply flow (10 L/h) will be controlled by MFC308 (redundant flow control with MFC309)
 - The buffer tank will be maintained at ~1050 mbar by monitoring PT312 (redundant pressure monitoring with PT314), a solenoid valve (SV316,) and controlling MFC316 and the exhaust fan power
2. Bob reviewed the failure modes listed on page 3 of the [ALERT Gas System- writeup](#)

2. Procurement

1. DSG will select the MFCs and pressure transducer components
 - Hall B will provide connection specifications
 - DSG will provide the final parts list to Hall B for pressure systems and piping connection verification

3. Timeline

1. Hall B is scheduled to test the system in the EEL building in early March, 2024