

## Hall A GEM Gas Distribution System Meeting

**Date: July 8, 2019**

**Time: 13:30 – 14:15**

*Attendees: B. Eng, K. Gnanvo, G. Jacobs, N. Liyanag, M. McMullen, B. Sawatzky, J. Segal*

### 1. DSG gas systems presentation

- 1.1. Hall B gas systems hardware (G. Jacobs)
- 1.2. Hall B gas controls (M. McMullen)

### 2. Define the overall scope of the project

- 2.1. Hall A should define what systems need to be designed and any known information about the system.
  - 2.1.1. Initially, Hall A has requested support from the DSG for the gas distribution for the SBS GEM detectors. A panel will need to be designed, and a method to measure 48 gas channels of flow will need to be developed. N. Liyanag will provide a specification document which will detail the distribution breakdown.
  - 2.1.2. The DSG will only be involved in the gas distribution system, Hall A already has taken care of the mixing system.
  - 2.1.3. The system owner is J. Segal. The current listed DAs are D. Meekins and W. Seay
  - 2.1.4. DSG will meet with K. Gnanvo within a few days to look at the current GEM test set up in EEL 124 (Clean room). DSG can then develop a parts list for the distribution and a method to readback flow for 48 total channels. No other controls or monitoring was specified. This system is scheduled to go online within 1 to 1.5 years.
  - 2.1.5. All other systems are in varying stages of development, some are still conceptual.
    - 2.1.5.1. **Moeller** is projected to be the next gas system it is still in the design phase.
    - 2.1.5.2. **SOLiD** has multiple gas systems (MRPC, Heavy Gas Cherenkov, Light Gas Cherenkov)

### 3. Establish a regular interval for status meetings

- 3.1. Depending on what information is already known, a regular meeting schedule should be defined.
- 3.2. DSG will meet with K. Gnanvo to discuss components needed to build a full scale distribution for SBS and BB (Big Bite).
- 3.3. The next full meeting will be during the first week of August (tentative).
  - 3.3.1. DSG may provide an update on the SBS parts needed, Hall A may invite collaborators/staff who can give further details on the Moeller and SOLiD systems.