

## DSG-HDIce Meeting 14-Feb-2019

**Date: 02/14/19**

**Time: 2:00pm**

*Attendees: Mary Ann Antonioli, Peter Bonneau, Pablo Campero, Brian Eng, Amanda Hoebel, Tyler Lemon, Xiangdong Wei*

### 1. Status:

- 1.1. Group is waiting for replacement pipe for IBC magnet repair.
- 1.2. Bridge rectifier burned up in dilution fridge UPS.
  - 1.2.1. Group wants to use thermal camera to monitor temperature of dilution fridge chip.

### 2. NMR Cycle Timing:

- 2.1. Cycle takes 25s longer to run on Windows 10 than on Windows 7.
- 2.2. All settings are the same for both PCs.
  - 2.2.1. CPU and memory usage was also checked.
    - 2.2.1.1. No notable difference between either PC.
- 2.3. Additional timing found to be occurring when lock-in amplifier dumps buffer.
  - 2.3.1. Suggested decreasing buffer size in order to increase readout time.
    - 2.3.1.1. Downside is decreasing buffer size will have less data points.
  - 2.3.2. NMR program will be edited to allow user to select acquisition speed at start of program.

### 3. EPICS:

- 3.1. Group is not yet sure about what will be monitored in EPICS.
  - 3.1.1. Might redo the way the pump cart is monitored.
    - 3.1.1.1. Pump cart was using very old LabVIEW VI's to interface with EPICS.