

## DSG-HDIce Meeting 31-Jan-2019

**Date: 01/31/19**

**Time: 2:00pm**

*Attendees: Pablo Campero, Amanda Hoebel, Tyler Lemon, Xiangdong Wei*

### 1. NMR Test:

- 1.1. Xiangdong conducted a 100-sweep test of the NMR program.
- 1.2. Test was done on spare IBC coil.
- 1.3. Signal average shows “ringing” in the beginning portion of the data.
  - 1.3.1. Ringing could be due to the fact that the coil was not shielded and was picking up noise.
  - 1.3.2. Second test will be conducted with a shielded coil.

### 2. Sweep Time:

- 2.1. Sweep time of NMR program on Windows 10 was recorded to be 159s, compared to 133s for Windows 7.
- 2.2. The increase in sweep time is significant due to only having ~1 day to test the target before it has to go back into the dilution refrigerator.
  - 2.2.1. The increase in time decreases data than can be taken for NMR by ~20%.
- 2.3. Ways to shorten scan time will be investigated.

### 3. EPICS:

- 3.1. EPICS is still desired, but requires more time by HDIce to think on what should be monitored.
- 3.2. Will be very useful for when the target is in Hall B.
  - 3.2.1. Is not urgent at the moment, while the target is being used in the UITF.

### 4. Mailing List:

- 4.1. Xiangdong reported not seeing the original email on the NMR test conclusion and Rack #1 summary.
  - 4.1.1. Most likely, Outlook buried the email under emails that were replied to it.