

DSG-HDice R&D Meeting Minutes

Date: October 2, 2020

Time: 11:00AM – 11:30PM

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Tyler Lemon, Marc McMullen, Amrit Yegneswaran

1. VI for remote control of Oxford IPS 120 power supply
 - 1.1. Additional PC added to UITS to run second power supply with an independent VI as a temporary measure until next access period
 - 1.2. During next access period, dual power supply control VI will be re-tested after fixes made to VI
2. Discussed meeting with Zurich representative on Boxcar Averager and lock-in amplifier
 - 2.1. Meeting is on October 2, 2020 at 2:00 in Microsoft Teams
 - 2.2. Answers already given by Zurich:
 - 2.2.1. Boxcar Averager is a software activation on lock-in amplifier
 - 2.2.2. With programming API, more complex math can be done with input signals than just the division that the “Reference” option does
3. Tyler Lemon created a system diagram for fsNMR program with Zurich lock-in amplifier (on next page)

Zurich Lock-In Amplifier-Based fsNMR System Diagram

