

17/08/16

KL, CW, MC, SF, AB, MP, SG, JC, PMH, SF  
Apologies from JB, VB, TB

## Agenda

- Cold magnet water modifications - controls
  - Warm magnet water modifications - controls
  - QD modifications
    - SS QD mods – SF – reporting on RP
    - – safety protections for actions – complete
    - - detect spikes or fast noise – write to buffer and save for SSU
    - - detect – wait 10ms – then act, only trigger if signal persists.
    - SF & AB to visit RAL in September to finalize SS commissioning. 7th - 17th.
    - FC QD logging - GUI mods. – in progress
- SG new processor in data logger and reprogramming – install next week Wed-Thurs. Data-logger will have slow logging will take this data – minimal work for PMH. System will be fully automated

Check time stamping for FC control PC

Investigate digital signal from SSU/D into FC logger – requires buffering.

### Commissioning Plan

- SS current 'instability' 140A tests.  
RD packs 'are' source of noise. **Action on PH** to circulate 'histogram' – in progress – possibly by Thursday 18<sup>th</sup>.

US proposed test plan KL, AB SF, MPop.

- Proceed with the SSU ramp to 3T and make measurements.
  - Measure induced voltages on M1 at differing FC ramp rates. Exploration of induced voltages on SSU M1 at differing FC ramp rates. May require contactor closed and power supply on at zero current.
  - Run FC to 10A, then ramp SSU to current. Subsequent ramps of FC from 10A will produce smaller VT excursions on SSU M1 coil.
  - Verify induced voltages on quench detector

SG possible to test SSU with more diodes Wednesday Thursday 24<sup>th</sup> 25<sup>th</sup>. -Try to free hall for close up as early as possible on Wed.

If use trim power supplies, unequal currents will cause current to flow either in external or internal resistor-diode circuits therefore RD packs are required to open below 15v else internal diode will conduct depositing heat in magnet.

**Agree** 5V trims, 10V centre coil,

- SF & AB to visit RAL in September to finalize SS commissioning. 7th - 17th.
- DONM Action on CW to arrange next meeting dependant on progress next week.

AoB