

SW, CW, MP, AB, SP, M brookhaven, JP, KL, JC, MT MC PH MU JB SH, VB.

Focus Coil

- Cool down successful,
- Helium is condensing
- connections have been checked
- hope to get to 10A today checking connections and trim QP system.
- Wed/Thurs to run.
- SW making check list.
 - Check list before running
- JB, we will want to leave a field at 114A solenoid for several hrs.
- JC we should have 'in principal' discussion re flip mode operation.
 - Current decision is that either configuration can be run.
 - JC considers should run solenoid mode.
 - No modelling evidence for flip vs solenoid.
 - **Action on FC team to write expt plan and submit to Magnet group.**
 - JP is there a plan to verify high current operation in solenoid mode?
 - JC coil could operate at higher current but we don't know forces on coils. It would be easier to complete solenoid mode work first but notes- all beyond 120A is new.

Spectrometer Solenoids -

- Plans – no plans for next week,
- Recover SSD vacuum. Nominally starting Thurs 29th, after review. Team arriving from US through Fri 6th Nov. - Will require full vacuum monitoring.
- Monitoring JB in process of fitting up monitoring in ISIS control room displaying mimics of both solenoids and vacuum mimic and normal state condition, every 4 hours. This OK for normal operations. Have agreement in principal with ISIS, Alan Stevens.
- North side parts coming in 4 weeks. Turbos are not auto re-start. Could solve with latch on solenoid valve.

Action JB, SB, MC, MT, JG. to meet and discuss compressed air reservoir to ensure closure of electro-pneumatic valves in case of power fail.

AB On warm up of SSD, vacuum rose faster than anticipated indicating high gas load in solenoid, estimate 4l gas. There is no current explanation for how this volume of gas could be introduced to SSD. Backstreaming through scroll pumps would be insufficient as would all currently known leaks. In general magnets were not pumped after cooldown, only after quenches to remove helium burps. MP noted that there was a period where turbos were on during cryopumping. During this period a turbo tripped off while the gate valve was open. The backing scroll pump was on and solenoid was open and so backstreaming would have occurred.

SSD must be de-gassed.

- This requires 24/7 vacuum support for 8-10 days. Start Thurs 29th.
- Need vacuum support team in place, JB to organise.

- MP is preparing a memo on appropriate responses to vacuum excursion
- SSD should be leak checked again.

Power Supplies

- MP still evaluating document from SG Daresbury.
- Indicating that contactors should not be opened, rather PS should be turned off.
- Precision monitoring with DCCT hardware ready in 2-3 weeks

Decay Solenoid and power supply

- TH changed power supply isolation amp – control problem is now solved.
- 120 A issue appears to be solved.
- MP has PS been soak tested for 24-48hrs? - No
- Should run at high current as problems are not evident at low current.
- Leds are not latching type, contactor does not latch
- Thermal imaging has been tried.
- Plan of action, run hard with observers.
- Add sensors of our own.
- Action on MC produce plan to diagnose DS for next meeting..

Magnet support team

Will be developed for 10 day vacuum recovery program.

- AOB

JP asked about combined operation of magnets. Will it affect quench propagation from FC to from SSD? Not considered problematic.