

CW, AG, PG, MP, AN, PMH, AB, PS, - KL

Actions

SG action on magnet crash buttons- complete.

FNAL have document, still under review. Some issues have been identified.

MP assembling detailed reply, expect end of week.

FC status

- FC is cold DL currently checking power supply.
- Running -if there are ramps to quench, should monitor quench on SS.
- Should run into short first to fully characterise power supplies.
- Agree to review results of those tests into short before proceeding.
- circulate test results to MIPO.

SS status

- AB, technical update, ran full current last wednesday
- magnet was very good. diode trays have water leaks - now fixed
- SSU looks good 1e-8 vac 3-4 watts extra cooling capacity.
- SSD M1 coil not operable
- have good model, no short term fix, looking into work past step IV.
- M2 test also completed at 5A nothing anomalous. Considered operational.
- Pick-up on M1 read through voltage taps becomes a qd for m2.
- Finished design of DCCT system including buffers to do digital calculation and protect m2.
- Plan to run SSD if we have step IV running.
- Evaluate power supply system, after magnet review.
- Hope to have DCCT completed the week of magnet review.
- Ground fault detection will monitor short between M1 and M2.

AB sequence of events.

- internal qp blew a lead on M1, not clear why, due to delay in quench - longer current drive into QP?
- When centre coil quenches, centre coil qp does absorb current for 25 seconds- longer than time to damage in fault event. Normally M1 would only see current for 10s.
- could be intrinsic design problem or single point failure - have checked photographs taken during build
- qp opens, voltage rises, circuit is open, results in arc, guess at feedthroughs from vac to he space
- That burnt out lead in M1 and caused short between M1 and M2, break is in LTS lead.
- centre coil has 2 diodes vs 1 in match solenoids.

SSU&D are currently not being monitored on advice of AB.

- MP we left with statement magnets should be monitored, were hoping isis shifters to check periodically and call expert.

- AB changed this advice as vacuum and He were very stable. PMH no change in past few days.
- JB plan would be to monitor vac and heater power and he level. PS should we monitor T? AB probably not necessary.

Magnet power supplies.

- Should SSD dump trays be refitted? Yes refit. Allows running pre-final step IV config.
- AB Centre coil on tray was 125C during run, maybe add fans? has been noted by SG.
- FC ground fault and quench protection installed, test today at low current TH.
- MP full configurational safety review. Reviewing suggestions from SG and analysis, expect some changes.
- Need to validate multi-magnet operation. How power supply is configured at system level. QP integration is needed.
- MP notes components are in place and need to be validated. Need a meeting of 1 day from experts. MP need a lead for detailed systems integration review. after MPB/RLSR.

- Magnet Review Oct 26th.
- Booked CR13 R68. 1PM, Jim Kerby at DoE request, initial assessment.
- More detailed review planned for nov23-24th at FNAL.
- DoE recommends to MPB that after the technical review is complete and we have a recovery plan we should have a sub-committee of MPB and RLSR review the plans. Which they may choose to modify.
- MP notes members have been unable to contact Charlotte.
- MP RAL to confirm room for magnet review. Might be better to ask for CR12.
- Action on CW to change to CR12, provide coffee etc.

RLSR/MPB - CW/KL

Uk finance meeting today. in good shape

US to meet today to finalise risk table and updated spend profile, expect to get send to Uk in next 24 hours.

Safety

- Incident has precipitated a protest.
- DS power supply out of hours intervention, nobody at RAL was advised.
- AN recommends we need full time run co-ordinator. CW hope PH, V.Blackmore, V.Bayliss, C.McWaters can combine to cover this.
- AN meeting with Neil Geddes later this week.
- AN meeting with divison head, AO, expect criticism.
- AN lab and experiment operate under an HSE framework with safety codes - there is electrical safety code which details power supply interventions - need electric permit by authorised person, which did not happen last wed when ds power supply tripped due to over temp.

- This was a reportable occurrence,
- Report of incident is accessible - SHE enterprise online
- PRY drawings - CW
- AB last week verified that JT and SP are working from same cooling optics document.
- CW why do we have a requirement for the RF cavity to be able to be turned through 180, AB - in case we have to put in a spare. Related to services.
- Steve Plate to communicate with AB by end of week and AB to circulate. Need to resolve before end next week.
- If we decide to use MTA magnet we would require a new pry.

RF Plan - AG

Slides posted

Applied recommendations from RF review to increase time contingency for risks showing additional effort as well as ASTEC effort and Bob Anderson - ISIS.

Result is

- pushed system 1 delivery back.
- system 2 is also pushed back.
- moving start date forward will not help as rf is limiting factor. moving back will not immediately impact critical path.
- high power testing finishes beginning of July, then PRY can be installed.
- AG picked out critical path and risk added critical path.
- Risk might change. Schedule reflects best understanding of RF only.

KL has asked for a meeting with CJ, BS, IR, etc before review to advise of current status

Hydrogen system update.

- hydrogen system hardware is complete
- He cooldown is in preparation - 1 flexible pipe to be installed and safety paperwork to be done.
- Next action is preliminary tour once feedback has been incorporated, should be ready to run.

AOB.