News from meetings
- MKI cool installation discussed in TEMB and happy about June installation. Machining of damper complete, changes verified. Being baked today, acceptance by Thurs, with planning. Hampered by the ZS in the clean room. Need to sort out how to assembled.
- Planning for the KFA45 controls tests, Thomas to assemble detailed planning, to circulate for everyone’s green light.
- No changes to present LS2 planning despite 2 month later LHC physics, KFA20 tests OK for Jan 24, pm.

Matters arising
- PS injection meeting arranged for KFA45 overshoot.
- MKDH planning has been updated, delayed by few months pumping for VSC, to check if this is OK for them (Laurent).
- Another week needed before discussing switches cabling with Christophe (Laurent), but agreed to do switches in one batch.
- Move TPSC4 to RFI (Lucie).
- TEMB question on when LHC energy will be known (Bren).

Deliverables
#36   HC.MKD extraction kicker switches and generators Electronics & Controls Nicolas M.
MKD generator electronics and controls, on critical path is the decision on the PTC, since sometimes the FPGA restarts itself, not understood. Decision needed by the end of this week.

#37   HC.MKBH Generator Modifications Viliam
MKBH generators, almost everything done for MKBH except Ross relay energy saver. Waiting for improved connectors for triggering cables.

#38   HC.MKD Generator Modifications Viliam
MKD generators, all operational generators installed, some spare components need to be tested. Need to plan a full cleaning of the generators after the installation of the trigger cables (Laurent).

#42   SP.MKQ tune kicker controls consolidation Lorane
MKQ installation ongoing for BETS, with KSC team on the reconfiguration of the RCPS - move to RFI (Lucie).

#43   SP.MKP injection kicker switch consolidation Peter
MKP progressing with TTE.

#45   PS.EC-Electronics & Controls for PS kicker systems Consolidation conformity with safety rules Christophe B.
PS CPDU production ongoing.
Luis

KFA71-79 PE coming in and orders slowly start to go out (and come in).

Lorane

PS Power triggers, running late, may miss the installation deadline (postpone to YETS). Now to replan (Etienne).

Gregor

AD ignitron phase out, will start cubicle refurbishment in March.

Vasco

KFA20 tank arrived today, will prepare for VSC.

Roger

Electronics and controls for SEH23 HV generator. On track.

Chiara

- Most deteriorated capacitor sent to supplier for investigation.
- Price asked for 2 scenarios: 5 compatible spares or 15 new production with higher V rating.
- Reliability tests on operational MKBV do not show any degradation yet (2nd being tested) yet.
- Increasing capacitance would help reduce V by 5%.
- For the dump pattern not much difference for most of the cases, but would need analysis by STI of the stress patterns. Agreed to check with them if this is formally still needed (Chiara), if yes, we will rebuild with the same spec.
- Bren to remind Lisette about amount needed, when it is known.

Mike

- Operational scenarios defined for 2021 to 2024, including the 2018 scenario, max 310 W/m for scrubbing.
- OK for 2020 scenarios but in 2021 start having risk of exceeding Currie temperature.
- For 300 W steady state can reach Tc for steady state. For transient with 800 W starting at 25 C would reach Tc after 10h.
- Concerned about mechanical damage if heating rate >5C/h, to check if this is a reasonable assumption.
- Scaled to 300 W, still heat at 12C/h for first h.
- Interlock on ground conductor, correlation depends on the heating rate, used 60/70 C in the past, which would have been 110C on the ferrite for 18C/h.
- Measured 55C in 2018 throughout the year.
- Vacuum pressure may also be an issue, if reach 85C - need to check the 2018 data (Mike).
- Ideas for mitigation, including soft-start to check state before injection to save mis-injecting (needs investment, YETS2021/2022). To address the problem, serigraphy would expect to reduce by x10 and would solve issues. In progress, may need Cr2O3 coating. Field rise time should not be affected, HV performance to quantify. Can refit to existing magnet, would prefer to build new module. Some problems with the ferrites and plates, not clear when this 2 module magnet can be assembled and tested. Might be ready September/October this year.
- Need to develop the planning for the prototype, the planning for a retrofit in 2021/2022 and also the budget and resources (Wim).

AOB
- Idea to create blanket order of limited number of digitizer types, action to prepare the analysis of numbers and basics specs (Wim, Etienne) for next IPT meeting.
- GLO to clean the to-do list (Bren, Wim, Malika).

ABTEF planning
- Topics OK for next few weeks.
- Need topics from mid-Feb onwards, new Fell/Students?

Next meeting, 27/1/20
- Usual items
- Deliverables LIU CPS+SPS
- SMH42 results
- MKP-L strategy
- MKIcool planning.