

## MPP on injector topics: Pre-meeting

June 7<sup>th</sup>, 2019, 8.45-10.00h, 774-1-079

Present: Verena Kain, Alessandra Lombardi, Bettina Mikulec, Frank Tecker, Jan Uythoven, Christoph Wiesner

Excused: David Nisbet, Jorg Wenninger, Daniel Wollmann

- 1) Meeting organisation
  - a. Time slot: **Fridays, 8.45h-9.45h**, interleaved with injector commissioning meetings, frequency depending on necessity. The normal MPP slot (Friday, 10h-12h) is not possible because of the IEFC in the same slot.
  - b. Core members: Alessandra Lombardi, David Nisbet, Bettina Mikulec, Frank Tecker, Verena Kain, Jorg Wenninger, Jan Uythoven, Christoph Wiesner.  
Members to be regularly invited when needed: Grek Kruk (CO, timing), Federico Roncarolo (BI) and Christos Zamantzas (BI).  
→ Action: Jan to contact Grzegorz Kruk, Federico Roncarolo and Christos Zamantzas to check their availability.
  - c. Chair: Jan Uythoven. Scientific Secretaries: Christoph Wiesner/Jan Uythoven. Might be adapted depending on future participants. This might offer an opportunity of junior OP members working on the injectors.
- 2) Scope: Stick to the current MPP mandate (<http://lhc-mpwg.web.cern.ch/lhc-mpwg/MP-Mandate.html>), which covers also the injector complex, but intensify the discussion of MP-related injector topics (LINAC4, PSB, PS, SPS). Matters related to the injector complex will be reported to the IEFC if required (as defined in the current MPP mandate). No separated "Injector MPP", but different time slot and different participants compared to the regular LHC-centred MPP meetings to facilitate more specific and efficient discussion of injector topics. MPP meeting invitations will be sent to the injector and the LHC people involved, so all are informed. However, the invitation will clearly state the focus of the meeting.
- 3) The potential topics as sent out by Jan were discussed:
  - a. Linac4: LBE line commissioning, operational range of parameters, standard procedures, BLM limits, Machine Critical Settings
  - b. LINAC4: BIS actuating system from RF to HV, or not?
  - c. LINAC4: source caesiation
  - d. PSB: procedure and tools for injection < 4 rings
  - e. PSB and PS: renovation of the External Conditions – how to treat the different signals
  - f. SPS: new di/dt interlocking, slow extraction interlocking, MDs.
- 4) The topics should be prepared and pre-discussed by the involved people, before the conclusions and potential solutions are presented and discussed in the meeting.
- 5) Bettina already gave some details of possible LINAC4 topics related to the LBE Line Run. They will need to be worked out further in future meetings. The topics mentioned are:
  - a. Interlocking via BIS, External Conditions (next MPP meeting) and SIS
  - b. Different Beam Parameters and limitation of average beam power
  - c. Interlock settings (BLMs, watchdog, damage thresholds, BI equipment, roles of people
  - d. Procedures for BI measurements
- 6) **Next meeting will be on 5<sup>th</sup> July: Management of critical settings for LINAC4 (Alessandra/Bettina) and External conditions (Greg/Miguel).**