

Notes of the SPS Injection Interlocking meeting #1 of 3/03/2017

Present: Ivan Romera, Jan Uythoven, Bruno Puccio, Klaus Hanke, Rende Steerenberg, Etienne Carlier, Stephane Cettour-Cave, Verena Kain

Notes of the meeting:

- Ivan presented the [slides attached](#), referring to the previous meetings and their conclusions.
- All agreed that we will proceed with a SPS injection BIC, but not PS ring or PS extraction BIS.
- Verena confirmed that the SPS injection dump can take a few SPS injection shots, but no repetitive dumps of the 6 LHC BCMS beams. No upgrade of the SPS injection dump is foreseen.
- The D3 switching magnet power converter is foreseen to be changed in LS2 to make it faster. The new configuration should allow for 900 ms switching time.
- Presently the SPS is going directly to the LINAC to inhibit the beam, via software.
- The S2Pi card will be put in place for 2017 operation and will directly affect the tail clipper.
- The timing watch-dog and related interlocks were implemented in a rush 10 years ago and will disappear in LS2 when the SBDS will move to LSS5. A new solution will be discussed in the Injection interlocking meetings (although it is not really injection...) and the invitation list to be extended accordingly.
- The arming of the ring BIS will also be treated in these series of meetings, as all relevant people are invited.
- The TT10 power converters will be of the FGC type. It also needs to be discussed if they will be connected directly to the injection BIS or via a concentrator (as presently being studied for the SPS).
- The next meeting will take place in two weeks:
 - o Concerning the increased time delay between beam dump and injection inhibit due to the travelling time of the signal, a possible solution is to extend the MKDV pulse sufficiently. Etienne will present this in more detail in the next meeting.
 - o In the next meeting Verena and Stephane will propose which signals to connect to the future SPS injection BIS.