

SPS Hardware Commissioning

6th April 2021

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and SPS operations

Summary W13

- Continued SBDS commissioning with SPS in TEST mode -> normally today the SBDS should be handed to OP
- TPSC4 replacement for vac chamber -> **Done**
- TI2 magnet thermal checks until ~Wednesday -> **Done**
- Preparation for SPS ring phase 2 DSO tests and North area primary chain DSO tests 7 , 8 , 9 April
- Crab cavity interlock pre-tests Monday evening -> **Done**
- Completion of last few outstanding FEI checks -> **Done**
 - 4 remaining FMCMs -> **this week**
- Last few remaining polarity checks -> **Done**
- Continued interlock checks
 - test WIC for all transfer lines -> **Done**
 - test all input BIC for UA9 equipment -> **Done**

Summary W13

- Control of spare MKDH cable on Monday -> **Done**
- Continued work on QS -> **Done** now the QS is operational like QF, QD and 14 SMD
- Installation and test of the fast interlock from the WIC to fire beam dump if a main circuit trips -> **this week**
- Heat run sextupoles, octupoles and AUX PS in the Ring -> **Done**
- Test under real conditions
 - SIS permit injection -> **Done**
 - BIS injection plus BIS ring -> **Done**
 - Test the reaction of BHZ377, BHZ378, and MDSH.11971 following different condition and they react as expected -> **Done**

Planning W14

- SBDS
 - Start reliability run
 - BT working on an auto soft start if the SBDS doesn't pulse at high energy for a given time to avoid a vacuum spike in the MKDV1
- DSO tests
 - SPS ring phase 2 and Ion interlock on 7 April
 - North area primary chain 8, 9 April
- Remove all jumpers on the BISs
- 4 FMCMs need to be checked and two others need to be rechecked because of power convertor instabilities
- Continued interlock checks
- Installation and test of the fast interlock from the WIC to fire beam dump if a main circuit trips
- Thursday and Friday no access we aim to pulse all the SPS from 7h00 to 23h00

Propose beam permit to inject the beam on 10 April

SPS OP Zoom

- 8h30 every weekday morning

<https://cern.zoom.us/j/6929444357?pwd=bFk2OHdYUXA4NnhiQjcyQ2p0VGxnZz09>