



# MPS commissioning procedures – Update for post LS1 commissioning

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# Motivation

- Series of very detailed MPS commissioning procedures has been put together in 2009 and served to define and coordinate machine checkout and commissioning program of MPS systems
- Machine checkout will soon start to be organized by Markus and Rossano (OP), same for MPS/beam commissioning by Jorg et al
- Update of procedures with run 1 experience required to allow efficient planning and coordination

LHC-OP-MPS-002  
LHC-OP-MPS-003  
LHC-OP-MPS-004  
LHC-OP-MPS-005  
LHC-OP-MPS-006  
LHC-OP-MPS-007  
LHC-OP-MPS-008  
LHC-OP-MPS-009  
LHC-OP-MPS-010

MPS Aspects of the Collimation System Commissioning  
MPS Aspects of the Injection Protection System Commissioning  
MPS Aspects of the Beam Interlock System Commissioning  
MPS Aspects of the Powering Interlock System Commissioning  
MPS Aspects of Vacuum System Commissioning  
MPS Aspects of the Beam Dump System Commissioning  
MPS Aspects of the FMCM Commissioning  
MPS Aspects of the BLM System Commissioning  
MPS Aspects of the Warm Magnet Interlock System Commissioning

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+ several SMP documents (in slightly different form)

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- Majority of contents probably still valid but mostly needs cleaning + addition of new steps
- Beam test steps need reorganization

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# Clarify definition of repetition frequency

- N: Step executed only at the beginning of run (ie after LS) but not after X-mas or Technical stops
- S: To be repeated after every Shutdown -> Probably should distinguish longer X-mas-type stops (S) and short technical stops (T)?!

N	Not to be repeated
S	To be repeated after every Shutdown
P	Periodical repetition required, like 1 x per month; details to be defined in text
O	To be repeated when LHC optics is changed
X	To be repeated when crossing scheme is changed

# Next steps

- Finalize and circulate template for next week
- Identify/assign (new) main author for each equipment system
- January: First type test with PIC/WIC/FMCM document
- Until end March 2014: Presentation of draft documents in MPP