

# Commissioning of the MPS

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- Presented at many occasions
  - Chamonix 06
  - LHC Comm. WG (3 May 2006)
  - MPWG
- Now need to go further: need details to be written down!
  - Good example JW note for CNGS commissioning: “Interlocked Equipment of the CNGS and LHC Transfer Lines”, edms 714582
- General ‘Quality Control’: testing and documenting!
- To ‘guarantee’ a SIL3 system one is obliged to:
  - Write down the test procedures
    - Order of the different tests and what they contain
    - Obliges one to think ahead (down to technician level)
    - If you don’t have time to write down the test procedures, the next step is not to do the testing !
  - Document the test results
    - Date, check box, remarks
- Do the work in a ‘small’ group (see next slide)
  - Report to the LHCCWG

# Systems and People Involved

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- Beam Interlock System
  - Bruno, Ben
- BLM
  - Bernd, Laurette
- Collimators
  - Ralph, Stephano
- Beam Dump
  - Brennan, Jan
- Operations – Experience
  - Jorg, Verena
- Hardware Commissioning, MPS, other systems
  - Rüdiger, Markus
- LHCCWG
  - Roger / Mike

# How to Proceed from here?

- System tests and Hardware Commissioning procedures should kind of exist for the different systems
  - Be sure we have them all, index of what exists
  - Available for every body in a few weeks time
- To be followed by 'Interdependencies' and tests with beam
  - Tests without beam, depending on different systems including safe beam flag, control system, MCS, software (post mortem)
  - Commissioning with beam
    - Recurring for the different phases
    - Want to see whole chain of MPS working: force certain 'errors'
- How are we going to document the test descriptions and their results?
  - Loose documents, edms, mtf, Web, 'layout data base', ..
  - Details required?
- Other remarks, suggestions?