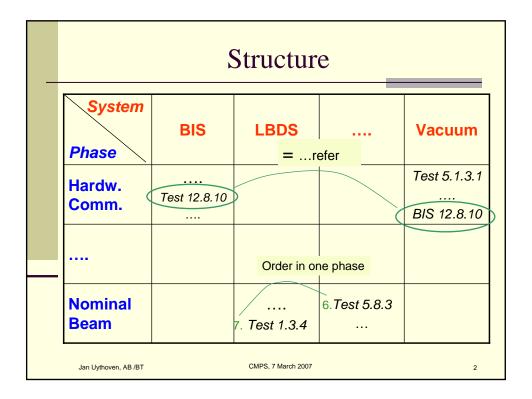
Structure of MPS Commissioning:

- Write documents per system
 - Written by
 - System responsible for major systems members of this working group
 - Members of this working group also for 'minor systems' like the example of the vacuum system
 - Approve in edms by members of this working group
 - Individual tests to appear in MTF
- For each system the same specific stages to appear in the test document
 - Allows to make a horizontal cut for operation of the machine in a certain stage

Jan Uythoven, AB /BT

CMPS, 7 March 2007



Systems

- See previous meetings
 - Including some interfaces, to be completed...
- Main systems:
 - Beam Interlock System: Bruno, Ben
 - BLM: Bernd, Laurette, Barbara
 - Collimators: Ralph, Stephano
 - Beam Dump: Brennan, Jan
 - Injection System: Jorg, Verena
 - PIC QPS WIC FMCM: Markus
- Other Systems
 - Vacuum (ongoing), Safe Beam Parameters, Access, Software Interlocks, CCC interlock, 'movable objects', experiments, RF & feedback, aperture kicker, fast beam lifetime,...

Jan Uythoven, AB /BT

CMPS, 7 March 2007

3

Phases

- Hardware Commissioning
 - Ideally refer to tests already defined in edms documents and MTF or they will need to be defined
 - Only select tests which concern Machine Protection
- Cold Checkout
 - System tests
- With beam
 - Below damage threshold at 450 GeV: 1 10^12
 - 156 bunches at 450 GeV: 1.5 10^13 (likely to do this?)
 - Below damage threshold at 7 TeV: 1 10^10
 - 43 bunches at 7 TeV : 1.7 10^12
 - 156 bunches at 7 TeV : 1.5 10^13
 - 936 bunches nominal at 7 TeV :1.0 10^14
 - 2808 bunches at 7 TeV : 3.0 10^14

Jan Uythoven, AB /BT

CMPS, 7 March 2007

Link to other Systems

- This section in the vacuum document was extremely useful to check the 'logic'
 - Good to keep it as separate section
- Tests of a functionality mentioned here should always refer to tests already detailed for the system it links to
 - Is this always true??
 - Should not need to detail the tests here but refer to other document, in which the phase is assigned
- Link between systems to be described by the client system

Jan Uythoven, AB /BT

CMPS, 7 March 2007

5

...and now

- Start document describing the tests for ALL the main systems
 - Use format as for vacuum system
 - If agreed I stick a template with the phases on the Website this afternoon
 - Don't forget the interfaces to the other systems
 - Discuss with responsible person of other systems to refer to the tests of functionality of other system 'you' need
 - Discuss outside this meeting, results reported in the meeting
 - Test of link between systems: to be described by the client system
 - Mention explicitly if there is a certain order of tests relating to other systems
- Document ready for approval / discussion in 6 weeks!
- Discuss progress /outstanding problems at the next meeting in 3 weeks
 - Including 'update' on MTF structure
- 'Other systems' to follow...

Jan Uythoven, AB /BT

CMPS, 7 March 2007

6