

LHC Sector Test with Beam

H. Burkhardt LOC 8.11.2005

working group <http://lhc-injection-test.web.cern.ch>

last meeting 01/11/2005 :

Mike Lamont (chairman), Roger Bailey, myself, Brennan Goddard, Jan Uythoven, Verena Kain, Ghislain Roy.

Main subject was : safety, Ghislain will report to INB in Paris on 9/11/05.

~ Conditions like part of LHC, injection in place, no circulating beam.

When : 11 days cold checkout 13/11/06 then 11 days with beam.

Maybe shorten cold checkout to leave some reserve

Chamonix 2006 <http://ab-div.web.cern.ch/ab-div/Conferences/Chamonix/2006/organisation.html>

2 sessions on sector test, http://lhc-injection-test.web.cern.ch/lhc-injection-test/cham_06.htm

1) session more hardware, AT, vacuum, chaired likely by Strubin or Hilleret

2) session on tests with beam by Mike Lamont (chair) + Verena Kain (scientific secr.)

and also 3 sessions on minimum workable LHC, Staged start-up & Commissioning

Meeting next week: BDI on beam loss + **feedback from ABP on beam test**

Please let me know. See also what has been done in Ti8 tests, Uythoven et al, PAC 2005

I would like to support/suggest :

full set of careful optics and aperture measurements (consider to prepare bumps + knobs ?),

beam profile measurements together with shaping of beams in the SPS (pencil, fat, flat)

and would like to propose tests to calibrate BLM by actually quenching the LHC.