## Updates on the LHC schedule

### Memo received (and distributed for information to the EB) a few weeks ago:

CERN/DG-2007-136-O

25 May 2007

#### MEMORANDUM

То:	LHC Experiments Spokespersons
Cc:	Jos Engelen – DG/DI Lyn Evans - LHC Massimiliano Ferro-Luzzi - PH
From:	Robert Aymar - DG
Subject:	LHC Schedule

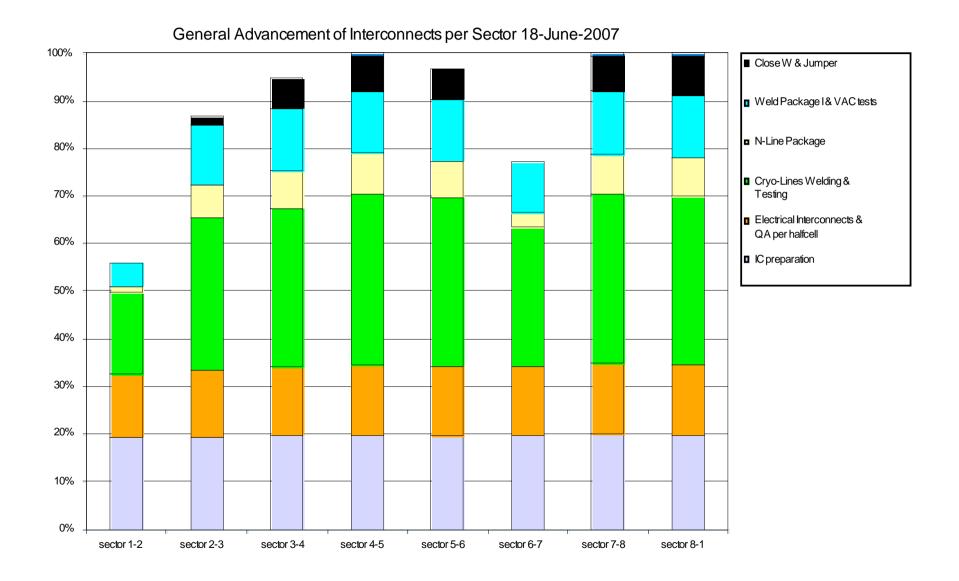
In assessing the LHC schedule in the light of recent developments I have decided that the engineering run at injection energy, originally foreseen for the end of this year, shall not take place. The most efficient path to maximal integrated luminosity at 14 TeV by the end of the 2008 run is now to commission all the LHC hardware to full energy, before starting operations with beam.

An injection test in November 2007, affecting point 8, i.e. LHCb, is still under consideration.

For the other experiments, the date at which the vacuum chambers should be installed and baked out is now end of March 2008 and you can use this date in your planning.

# The following is a straight-forward copy of slides from Lyn Evans as shown at this week's CERN SPC (and I guess then also Council)

https://edms.cern.ch/cedar/plsql/navigation.tree?cookie=1283002&p\_top\_id=1085299672&p\_top\_type=P&p\_open\_id=1008148388&p\_open\_type=P

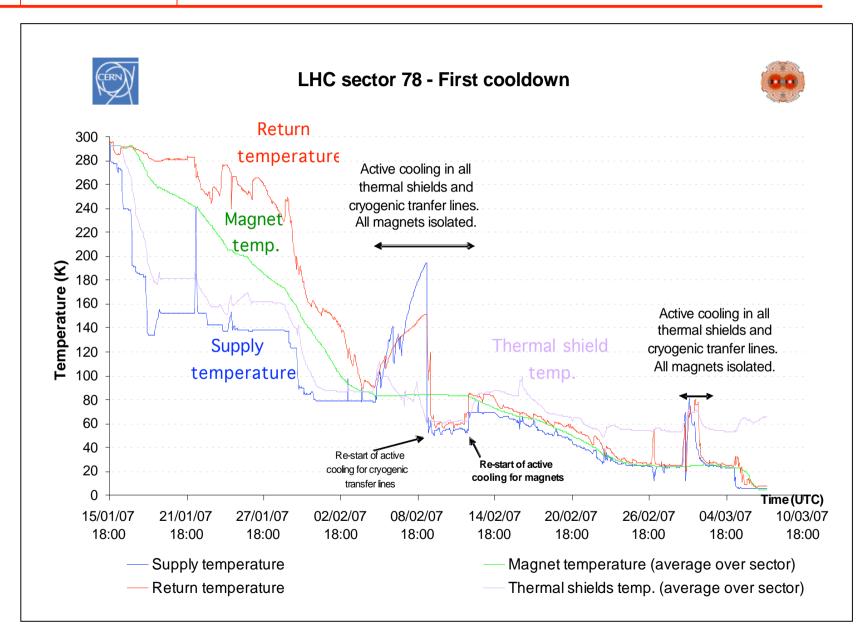


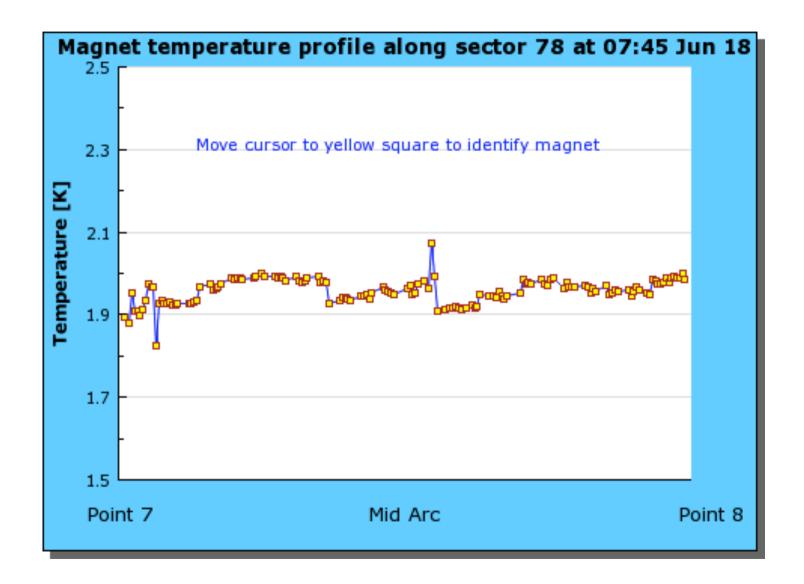


 Sector 7-8: cold and stable. Ground fault on dipole bus located to an instrumentation box. Power tests continue.

Sector 4-5: flushing until end of week then cooldown.

 Sector 8-1: pressure test performed over the weekend. Three leaks to repair. IT repair starts today.

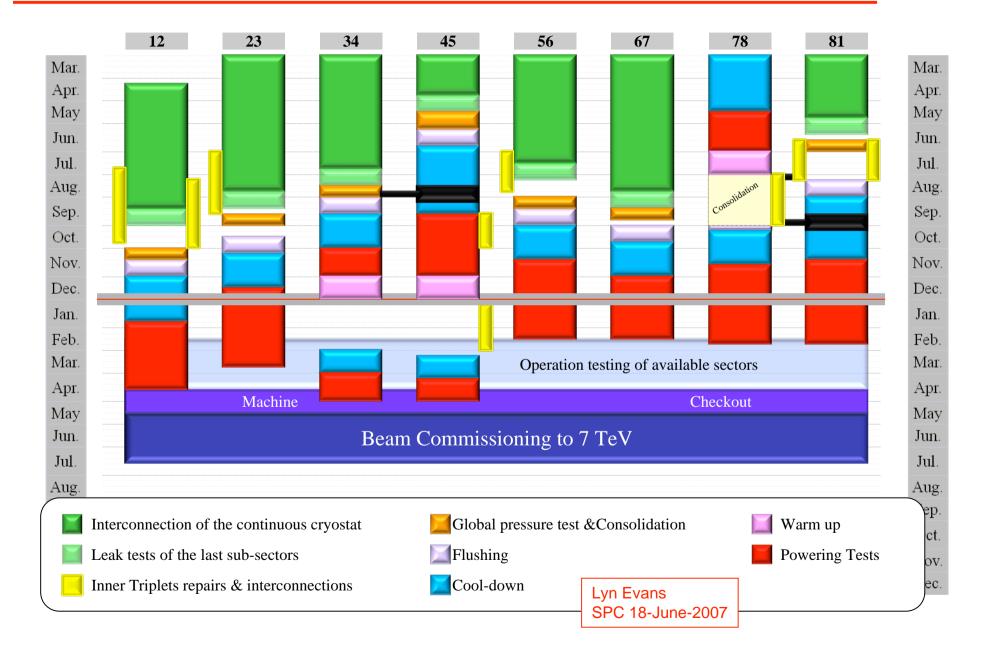




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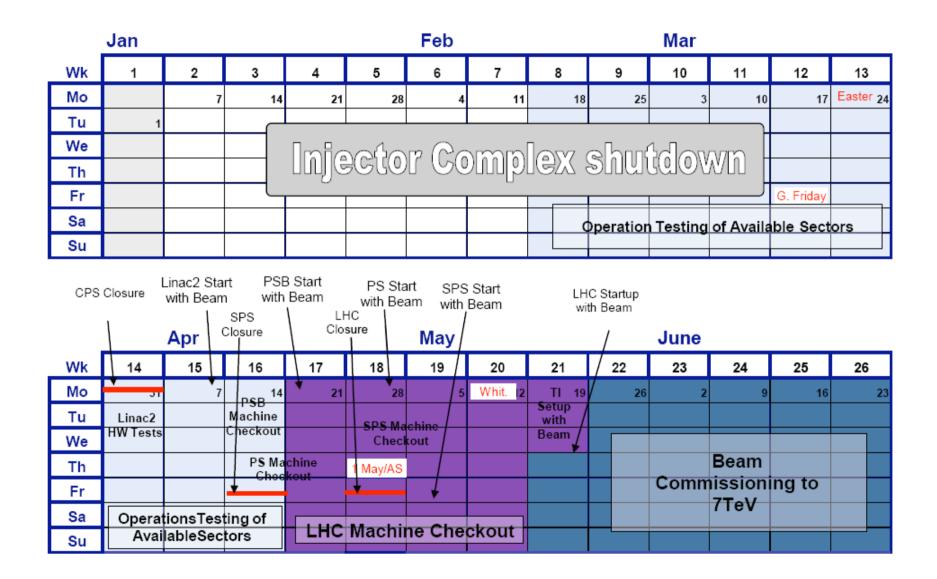
- Engineering run originally foreseen at end 2007 now precluded by delays in installation and equipment commissioning.
- 450 GeV operation now part of normal setting up procedure for beam commissioning to high-energy
- General schedule being reassessed, accounting for inner triplet repairs and their impact on sector commissioning
  - All technical systems commissioned to 7 TeV operation, and  $\succ$ machine closed April 2008
  - Beam commissioning starts May 2008  $\geq$
  - First collisions at 14 TeV c.m. July 2008  $\geq$
  - Pilot run pushed to 156 bunches for reaching 10<sup>32</sup> cm<sup>-2</sup>.s<sup>-1</sup>  $\succ$ by end 2008
- No provision in success-oriented schedule for major mishaps, e.g. additional warm-up/cooldown of sector

### LHC General co-ordination schedule, EDMS 102509, 12 June 2007

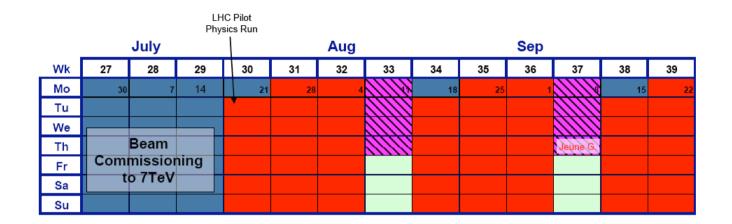


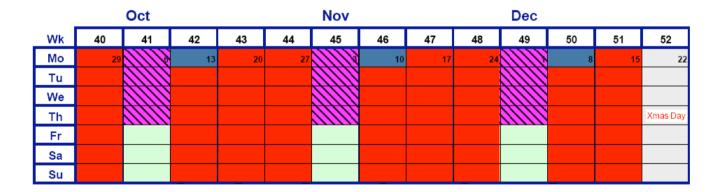
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## 2008 LHC accelerator schedule

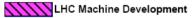






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LHC Technical Stop