

Status of the LHC

Keith Potter

August 2005



Current status of LHC Project

Lyndon R. Evans

LHC Machine Advisory Committee

CERN, 9 June 2005



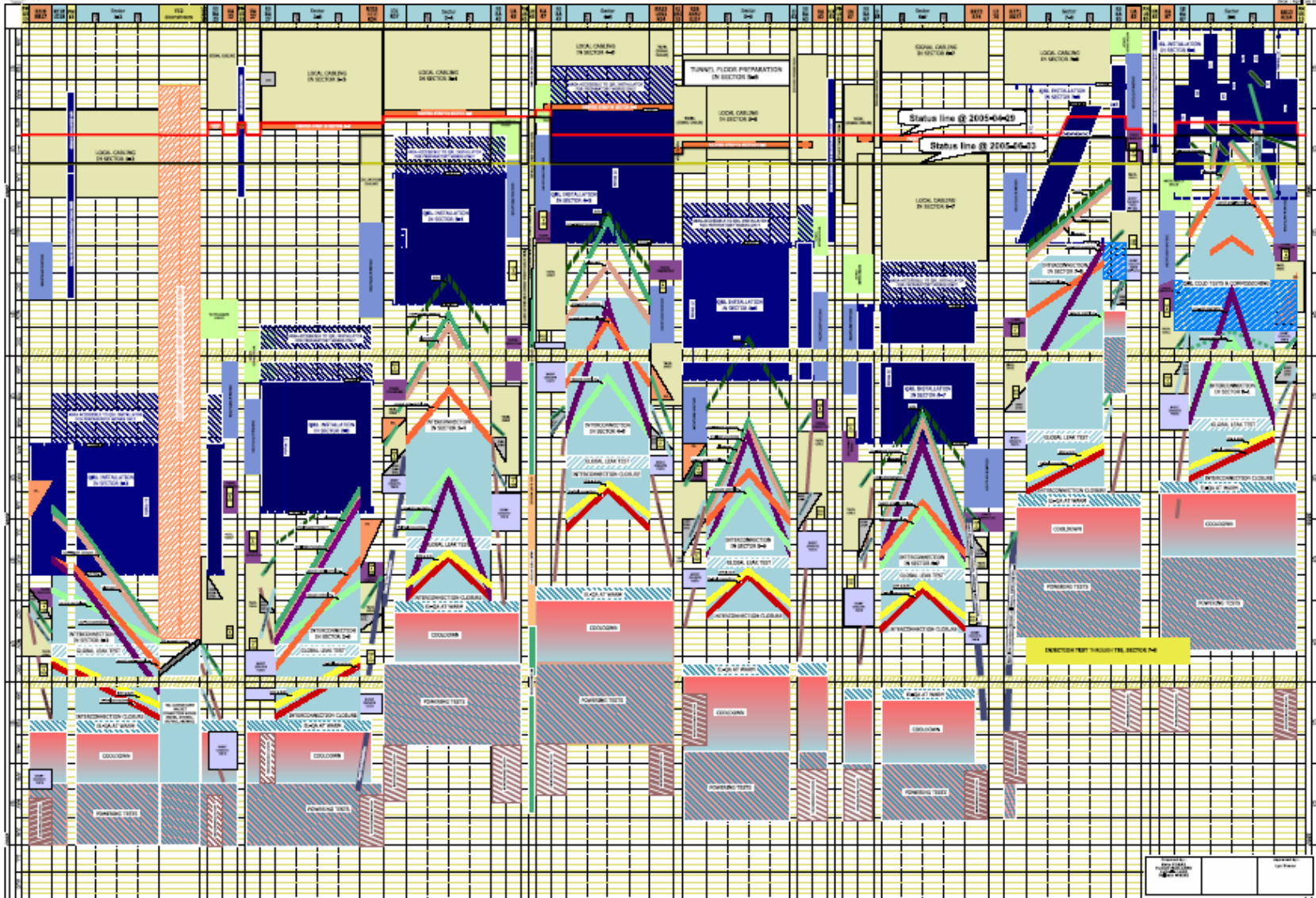
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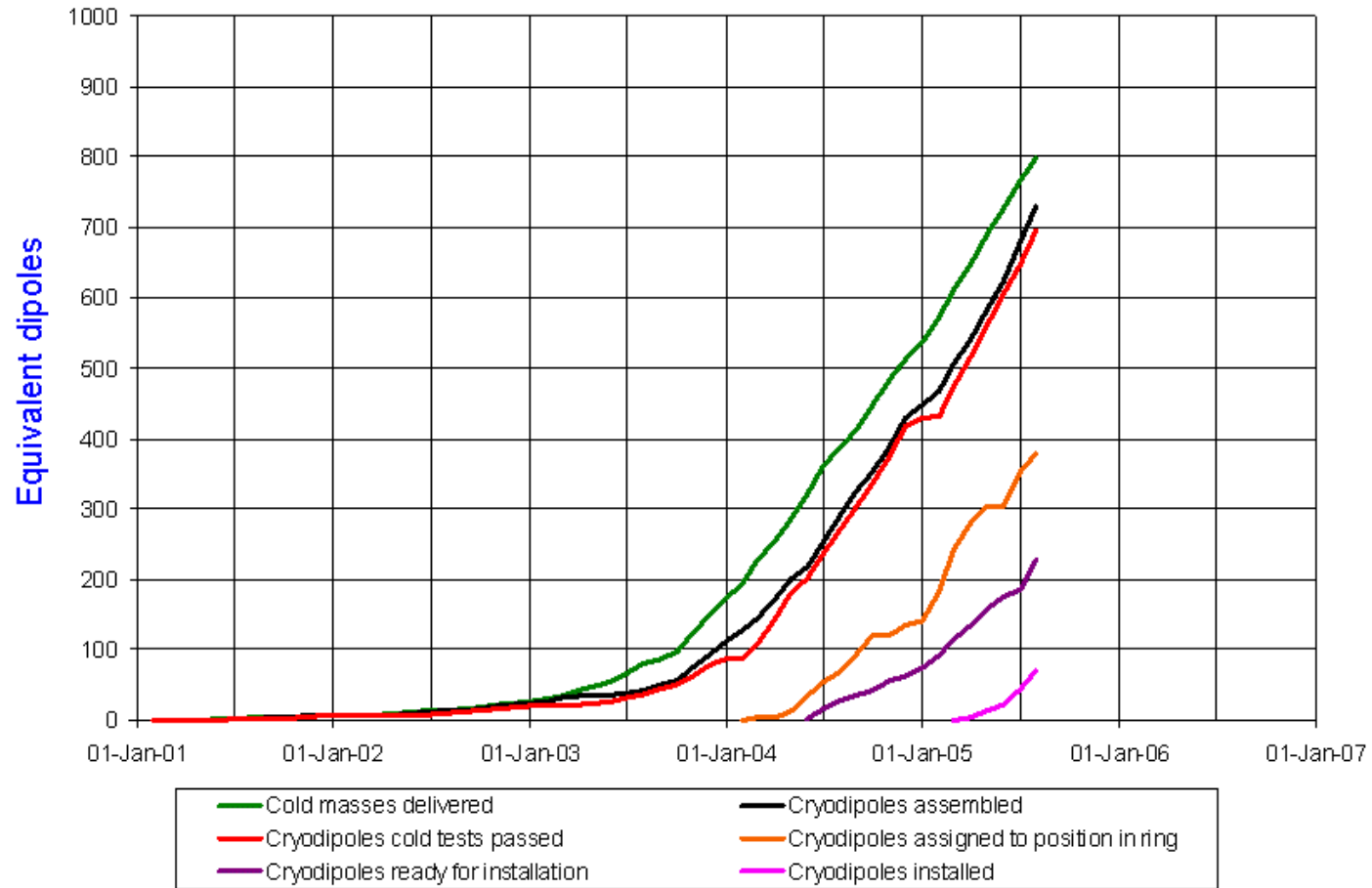
LHC Construction and Installation General Co-ordination Schedule

Status line @ 2005-06-03





Cryodipole overview



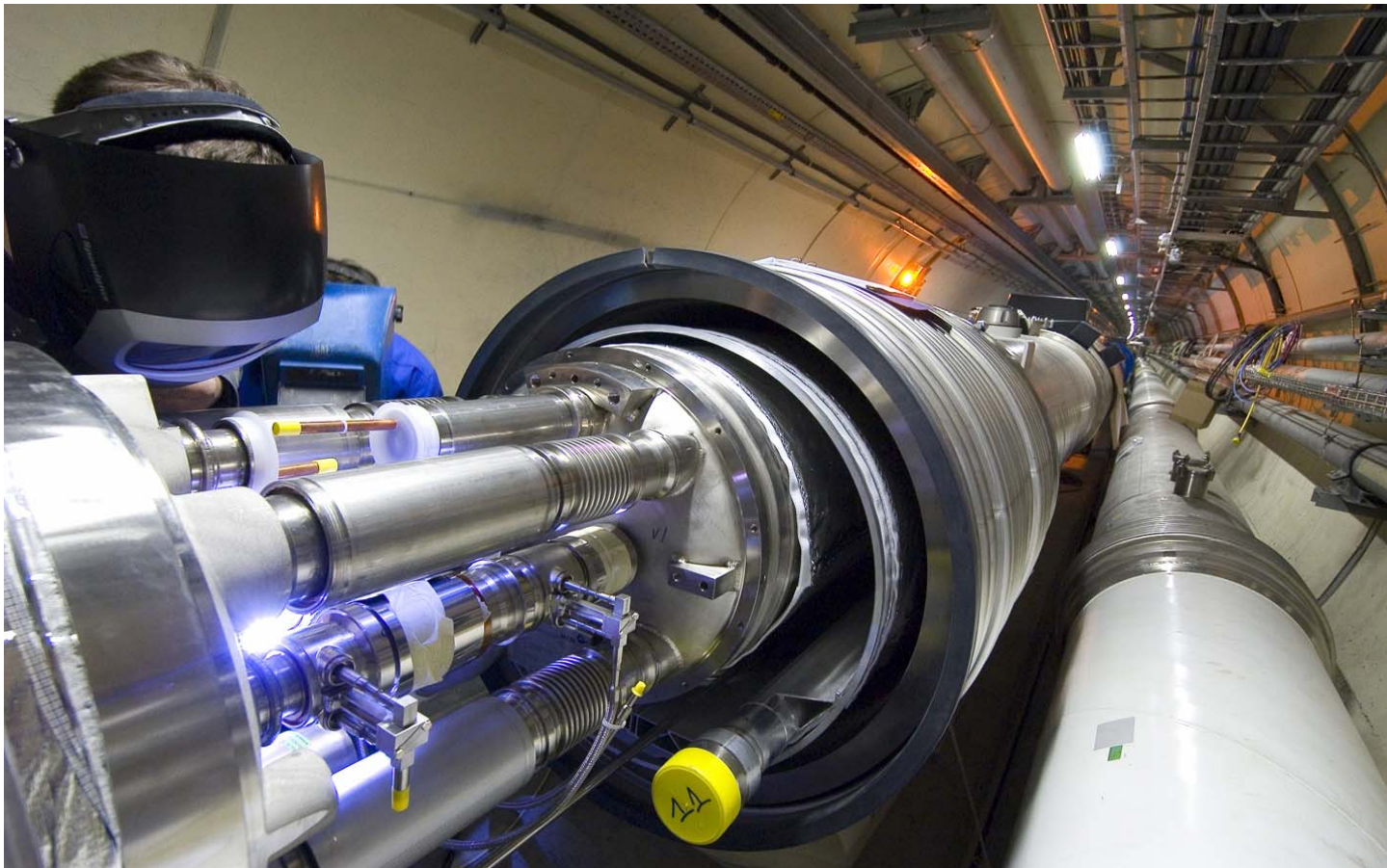
Updated 31 Jul 2005

Data provided by D. Tommasini AT-MAS, L. Bottura AT-MTM

QRL



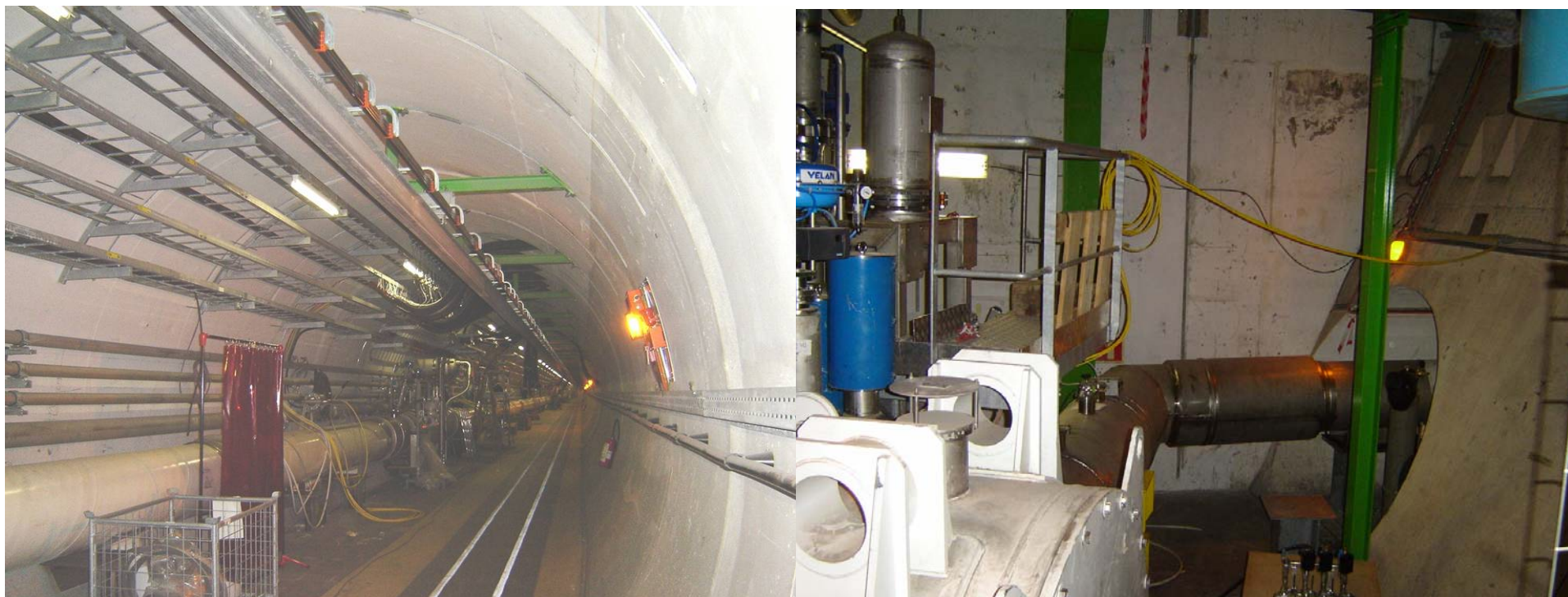
First Interconnection



Quench
protection racks
in the
equipment
galleries



QRL: sub-sector A of 7-8



RA84

UX85

Connection to QUI



Sub-sector C
Installation
in progress

Sub-sectors A&B
Leak tests

Interconnect in Sector 8-1



In progress
in
sub-sectors
C & F

Q3 boarding in Chicago



Status of Installation Summary (S. Weisz, TCC 26/8)

- QRL in sector 3-4:
 - Supports in place (>95%)
 - Mechanical installation started week 33
- Point 4:
 - Water cooled cables and ventilation in UA43/47
 - Power converters & quench protection in UA47
 - RF infrastructure (shielding, bunker, platform) in UX65
- QRL in sector 4-5:
 - Mechanical installation in progress
 - Sub-sector F ready for magnet installation
 - Jacks in place, transport Pb. due to humidity in 3-4
- Sector 5-6 & 6-7:
 - QRL supports in 5-6, cabling in 6-7
 - Point 7: general services in progress, tight planning

Status of Installation Summary (S. Weisz, TCC 26/8)

- QRL in sector 7-8:
 - Leak tests on-going in sub-sectors A & B
 - On schedule to start cool-down September 12th
 - Installation in progress in sub-sector C
- QRL in sector 8-1:
 - Mechanical installation finished
 - Leak test in progress
 - Internal leaks still to be localised
- Cryo-magnets installation in sector 8-1:
 - 85 magnets in place
- Interconnect in sector 8-1:
 - In progress in sub-sectors C & F

Conclusions L. Evans, MAC June 2005

- The QRL problems are now (hopefully) behind us.
- Equipment delivery is progressing mainly according to schedule. Critical path items are DFB (IHEP) and current leads (BINP).
- Additional measures must be found for the hardware commissioning of 2 sectors in parallel.
- The schedule for installation and commissioning is very tight.

Aim is still first collisions in 2007