

- **Sector by sector**
- **DS zones**
- **Contract status**
- **Inner triplet at 8L**

Work done by the whole MCS-IC section in collaboration with MCS-ET, MCS-SC, AT-MEL, AT-VAC, TS-IC, TS-SU, ... and IEG (F523 Contract) and especially :

LSSs

C Garion / I Slits

DS

T Colombet

DFBA / DFBL

F Laurent

DFBL / Cryo ext / WRL

I Slits

Arcs

P Fessia, A Musso, M Struik, C Vollinger (1...7)

F Seyvet (7-8)

F Bertinelli (8-1)

Progress status of the LHC interconnections

Sector 1-2

- Preparation of jumpers will be completed end of this week (W49)
- IWP 4 : completed (60 % in lump sum initial price for the whole LHC)

Sector 2-3

- Interconnections will start W51 with 2 teams
- Detailed planning is in preparation
- About half of the sector (3L) is available

Sector 3-4

- Interconnection of inner lines at more than 80 %
- Line N insertion started
- Progress according to schedule
- Passage will have to be free everyday for transport of warm magnets to pt 3
Impact is to be minimised but will be present

Sector 4-5

- Interconnection of inner lines completed except those open for tests or for specific reasons (7)
- Line N inserted in the whole sector including DS4R and 5L
- IC closure has started (About 20 done)

Progress status of the LHC interconnections

Sector 5-6

- Interconnection of inner line is progressing (2 teams)
- According to schedule
- Line N insertion not yet started

Sector 6-7

- No activity yet ; interconnections will start W6 - 2007

Sector 7-8

- Arcs : Localised leaks have been repaired and IC closed
Impact to be assessed
- EEWG tomorrow on the line N splices quality issue
- Triplet : see later

Sector 8-1

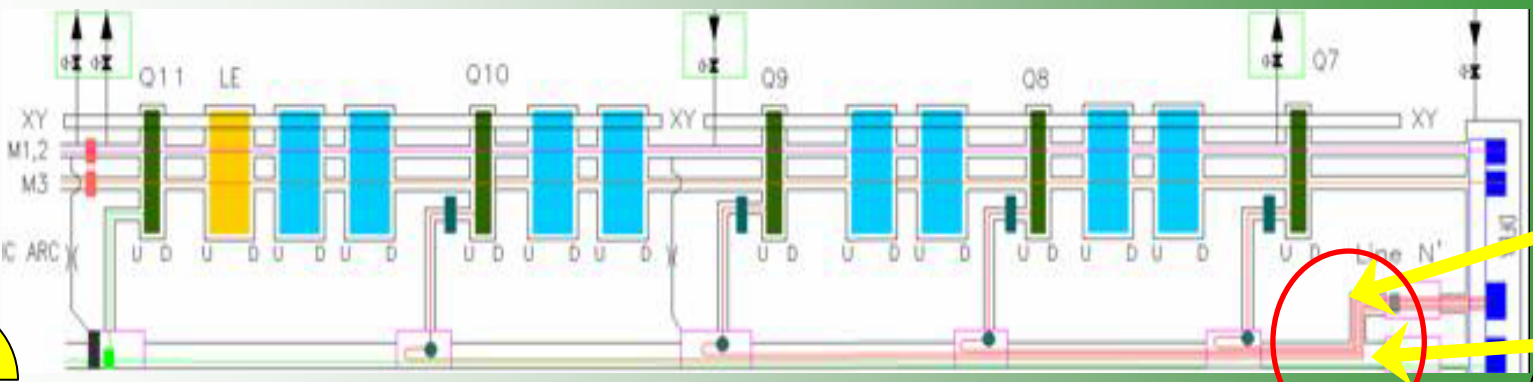
- F Bertinelli is the worksite manager (helped by F Seyvet)
- Available resources are used (not priority) / More than contractual
- Specific sectors
- Wrong PIM in DS zones will be cut by IEG W50

Progress status of the LHC interconnections

DS zones

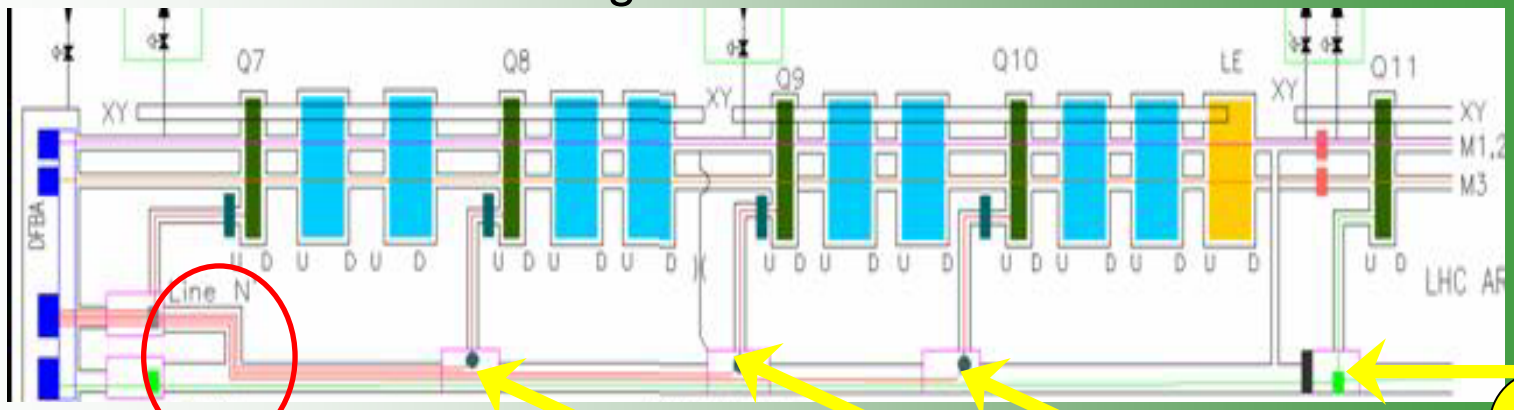
Insertion procedure of line N validated for the right side

Left side



Winch
at Q11

Right side



Winch at
DFBA

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Progress status of the LHC interconnections

Status of line N insertion in the DS zones :

Sector	R	L
1-2	Planned	Planned
2-3	Planned	NA
3-4	NA	Planned
4-5	Done	Done
5-6	Planned	Planned
6-7	Planned	NA
7-8	NA	Done
8-1	W50	Done
TOTAL	1/6	3/6

- Sequence having impact on standard activities is under optimisation (Varying with the configuration of DFBA's so several cases)
- DS will be on the critical path for the closure of the arc cryostat (DFBA to DFBA)
- Connection of 6kA cable (CERN task) is more time consuming than expected, human resources availability is a critical point

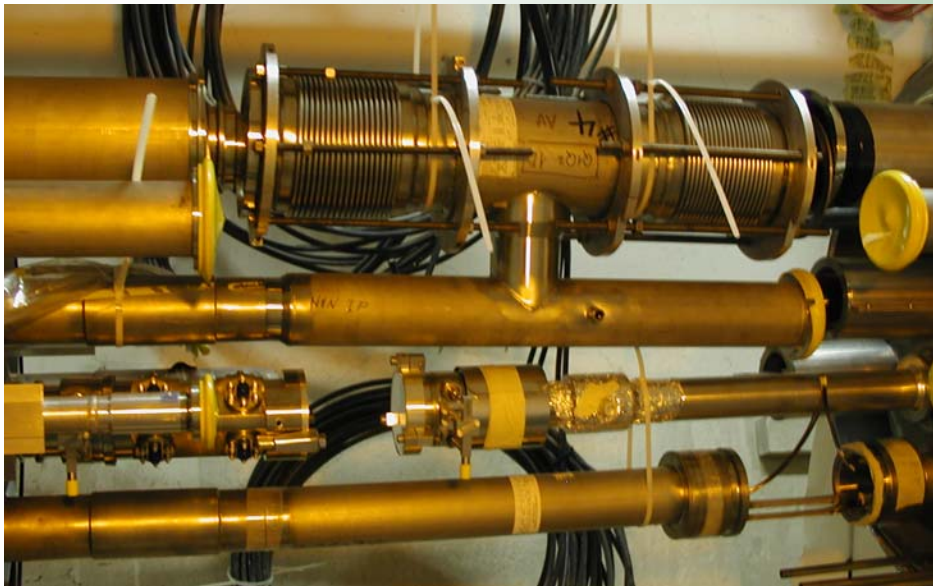
Progress status of the LHC interconnections

Contract status

- Amendment 9 to be circulated this week
- Lump sum prices are effective for 4 IWP out of 5
- Planning is coherent with LHC master schedule
- Discussion of amendment 10 started
 - Cryo instrumentation installation
 - Removal of jumper alignment devices “squirrel cages”
 - Review of IWP5 : Jumper connection (Technical modifications)
 - Impact of lower work volume for the end of sector
(a few interconnections to be treated in a non production mode)
 - ...

Progress status of the LHC interconnections Inner Triplet

- Mechanical failure of the heat exchanger line both in the interconnection and at the extremity of the line in the cryostat during pressure test of sector 7-8 (see presentation by L Tavian)
- Interconnects open in 8Left
- Activities stopped on the other triplets
- Solution under implementation to allow continuation of the programme of sector 7-8 excluding Q123 (IC reclosed for tomorrow evening)
- MCS-IC (C Garion) are redesigning the heat exchanger interconnection
- Analysis are going for the Hx inside the cryostat (MEL)



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Hole

(Side predicted by measurements
taken during pressure test