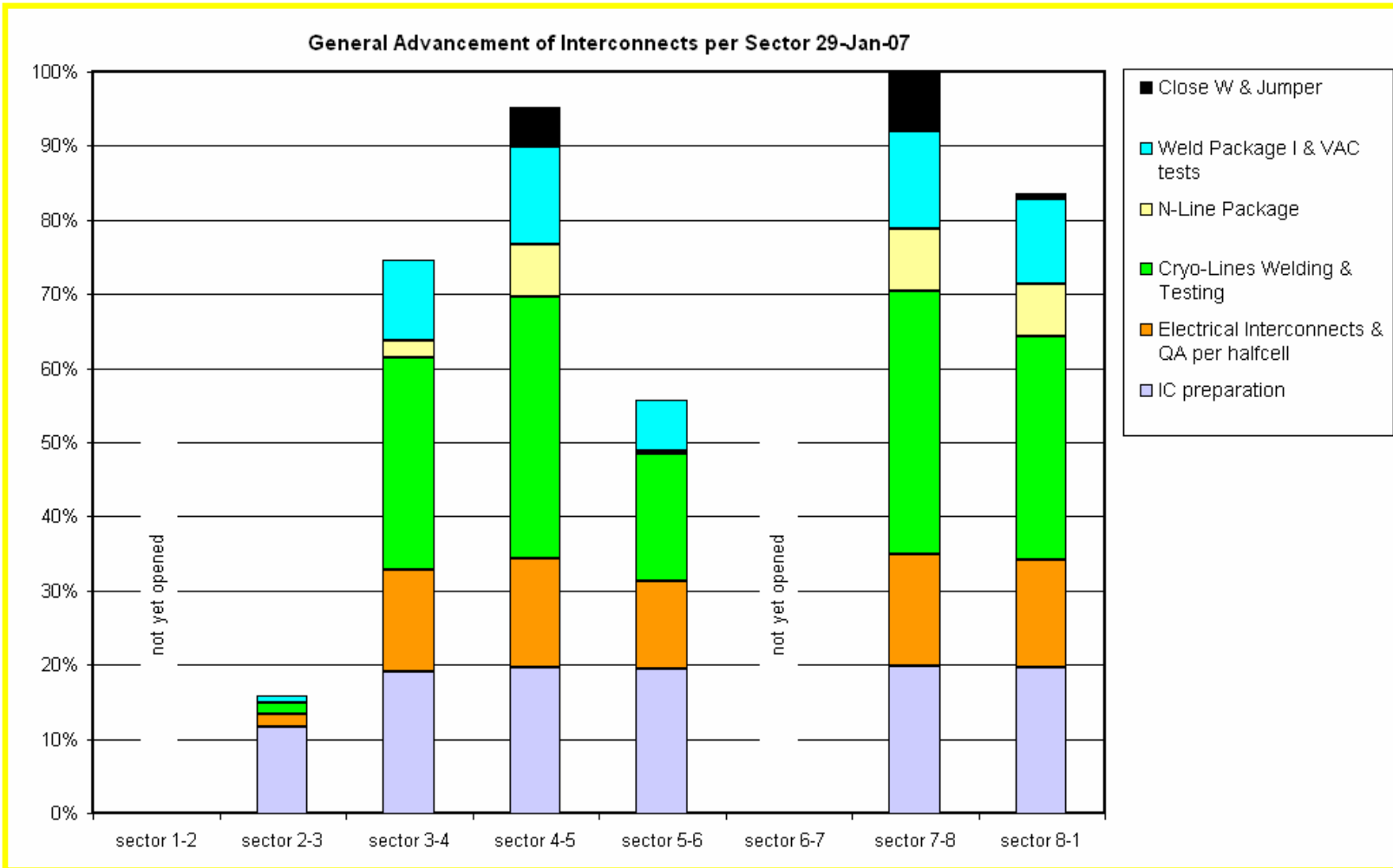


LHC Arc Interconnections: monthly update

F. Bertinelli / AT-MCS

(on behalf of IC Team)

Weekly Report: from C. Vollinger



from Weekly IC Report: C. Vollinger

➤ Sector 4-5:

- 8th VAC sector closed today and available

➤ Sector 8-1:

- 2 VAC sectors will be closed next week
- **Hot issue:** what testing on 8-1 once the last arc IC is closed? Proceed with tests, do not wait for triplet repair ...

- share resources for jumper welding (1 team)

- introduce a 2nd team for welding Z bellows in week 06/07

- ACR (AL) work to repair jumper bellows finished

- still count on ACR support to adjust the “cages d’ecureils”, measure special sleeves lengths

- share resources for closing W bellows

- dedicate a team for reopening after VAC tests

- dedicate 2 PEFRA to this team

- MEL reabsorbed backlog from week 51/06: thanks!

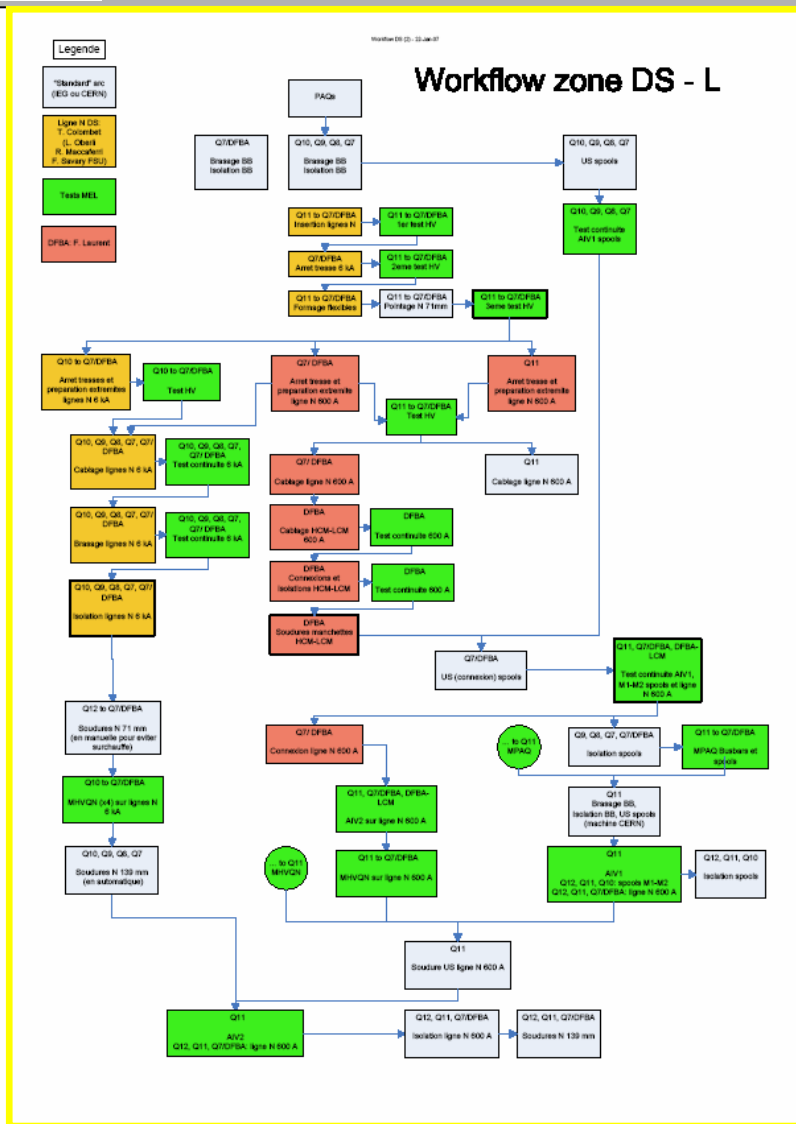
- urgent ongoing work for components (P. Fessia, M. Struik): PIMs, jumper sleeves order this week,...

- Sector 6-7:
 - BR + US starting with 1 team next week 06/07
 - parallel IC work on 6 sectors (supervision effort, quality...)
 - current Master Plan allows only 20 weeks for this sector (and for 1-2), optimistic !!!

- Sector 3-4:
 - DFBLC at Point 3 needed in time for pressure test of 3-4: please push !!!

- Sector 2-3:
 - Q11R2 for installation !!!

- Point 6, Sectors 5-6 and 6-7:
 - IFS modifications for beam dump will have effect on DS areas



- additional personnel involved thanks to involvement of MCS-ME Section (R. Maccaferri)
- now work on 3 areas in parallel, overall 10 persons (with F. Savary, L. Oberli)
- arc electrical tests started
- may need a dedicated person for MEL tests (and for overall coordination?)

A few war stories ...

- ❑ Sector 8-1: repair of IFS in-situ (P. Dos Santos Campos, V. Parma)
 - origin of problem: accidental arc during welding
 - CA: dry runs, improve electrical insulation of welding head
- ❑ Sector 3-4: SSS233 damage
 - origin of problem: large leak in V line flange material, damage to beam screen during cutting of PIM
 - crash campaign to disconnect, return to surface, on Monday 22 Jan. in SM18, SMI2, will be re-installed in tunnel next Sunday 4 February
- ❑ Sector 3-4: MB1159 in-situ repair
 - origin of problem: large leak on V line
 - first time success in replacing the flange in-situ, cutting and welding (F. Savary, M. Duret)
- ❑ Sector 8-1: repair of beam screen in-situ (VAC, credit to A. Poncet)
 - origin of problem: wrongly mounted PIMs, badly cut and extracted
 - PIM cutting activity totally internalised by CERN
 - VAC (P. Cruikshank, P. Garritty, D. Chauville): repositioned nested bellows, beam screen, testing, welding of fixed point)

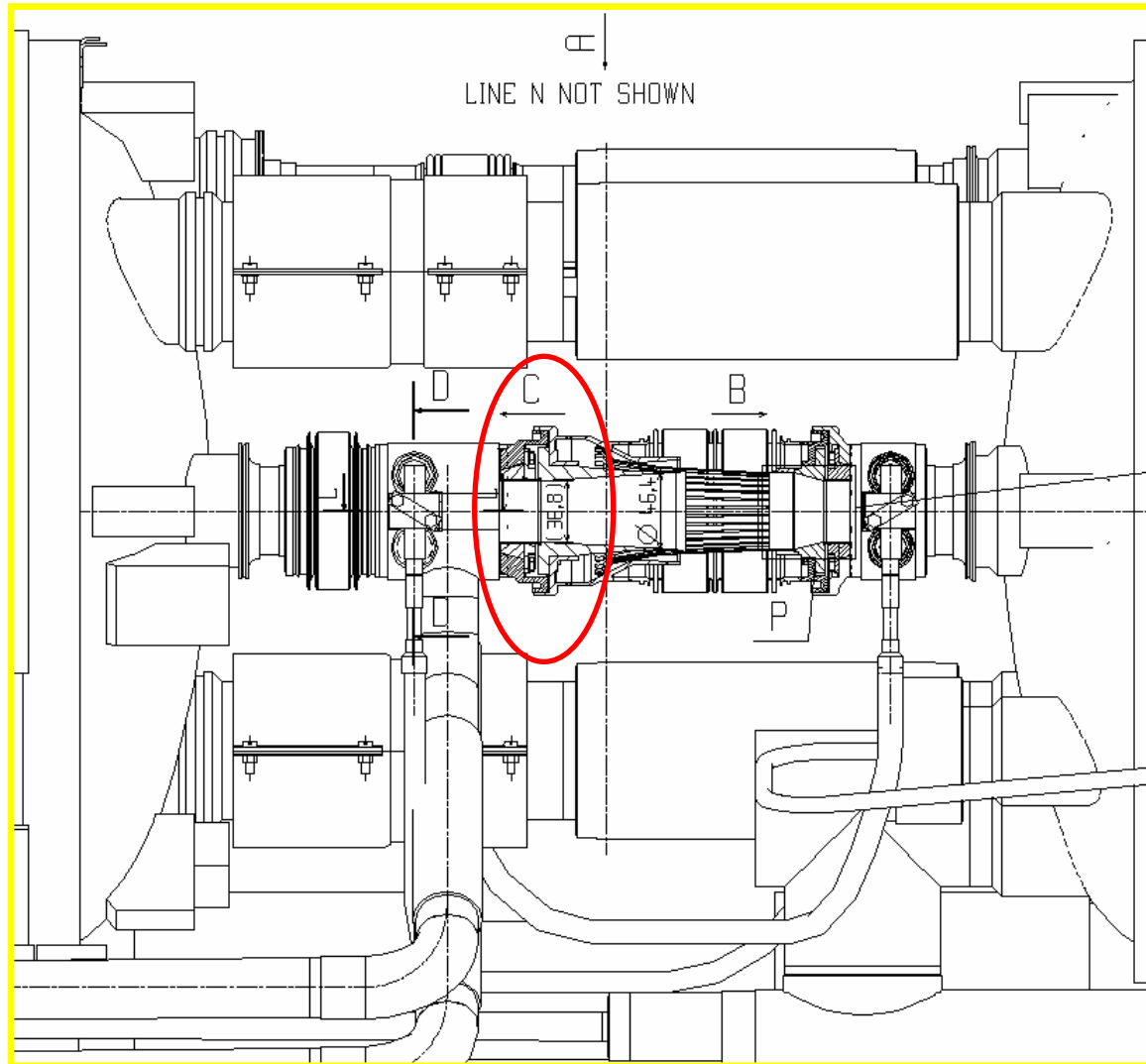
A few war stories ctd....

- ❑ Sector 4-5: one wrong W bellows installed (30 cm too long ...)
- ❑ several damaged PIMs detected just at closure (dents, scratches...): investigations ongoing (D. Tommasini, ICIT, IEG ...)
- ❑ 4 large V line flange material leaks (4-5 SSS184, SSS233, MB1159, 3-4 this week): metallurgy investigations ongoing
 - would be interesting to have a VAC update presentation
- ❑ several damaged K flexibles found, possible accidental arc damage during welding, poor welding at Manufacturer (BOA)
- ❑ Sector 3-4:
 - recent errors in cabling of line N (x6)
 - some (3-4) NCR AIV1 tests, low octupole resistance, investigations ongoing, results pending: MEL support needed also for diagnostics of test results to allow IC work to continue
- ❑ films/clips traveling from 1 to 8 soon available, e.g.:

G:\Workspaces\s\Sector81Interconnect\Sector 8-1\Photos and videos 8-1 (or Public F. Bertinelli)



MB1159 and others: in-situ repair ...



Technical Support - Windows Internet Explorer provided by CERN

http://icqa.web.cern.ch/ICQA/tech_support/week.html

Drawing Information | Technical Support

LHC Interconnection Quality Assurance

General | **NC Follow Up** | IC Coordination | Technical Support | IC Certification

ACTIVITIES FOR WEEK 5, 2007

(Last Update Mon, 29 Jan 2007 16:47:24)

	Lundi 29 janvier 2007	Mardi 30 janvier 2007	Mercredi 31 janvier 2007	Jedi 1 février 2007	Vendredi 2 février 2007
Alejandro [162509]	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8
Angelo [163783]	Connexions 6 kA sur Q8, Q9 et Q10 en L1	Connexions 6 kA sur Q8, Q9 et Q10 en L1	Connexions 6 kA sur Q8, Q9 et Q10 en L1	Connexions 6 kA sur Q8, Q9 et Q10 en L1	Connexions 6 kA sur Q8, Q9 et Q10 en L1
Bertrand Mouches [162978]	Arrêt de tresses en L4	Arrêt de tresses en L4	Arrêt de tresses en L4	Arrêt de tresses en L4	Arrêt de tresses en L4
Brahim Mellas [164294]	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181
Bruno Meunier [77085]	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8	Préparation extrémités du Q7 en R8
Didier [164795]	Découpage du PIM V1 en QBBI.A26L5	Découpage du PIM V1 en QBBI.18L5	Découpage du PIM V1 en QBBI.17L5	Découpage des PIM V1 et V2 en QBBI.8L1	Découpage des PIM V1 et V2 en QBBI.8L1
Gregory Lorentz XXXXXX	Finir découpes DFBL/DSL en R5	Découpe DSL/Q5 en R1	Finir découpe DSL/Q5 R1 et commencer découpe DSL/Q6 R1	Finir découpe DSL/Q6 en R1	Finir DSL/Q6 en R1
Gregory Maury [163332]	F 422	F 422	F 422	F 422	F 422
Guy Favre [XXXXXX]	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181	Préparation des H pour aimants triplets dans le tunnel/181

Done

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- weekly meeting to organise work
- currently 21 technicians/mechanics