

Status of Interconnect Works in the LHC Arcs and DS regions – week 46 (November 13 - 18, 2006)

C. Vollinger, AT-MCS (on behalf of the arc coordination team)

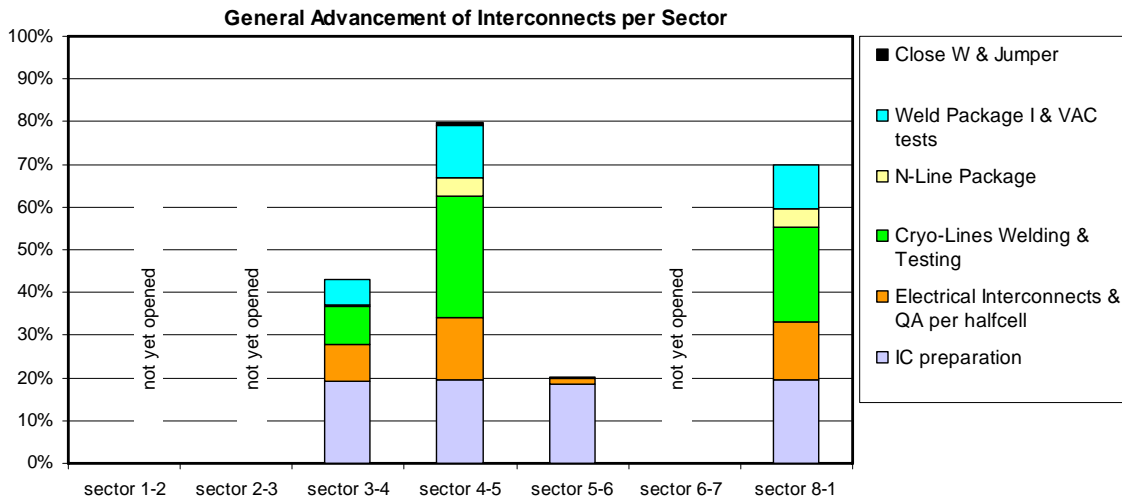
EDMS n. 801078

This report gives the status of the interconnect works in the LHC arcs and dispersion suppressor regions carried out during week 46 (November 13 - 18, 2006) in responsibility of the interconnection arc coordination team, starting with a general overview about the advancement per sector.

For the status of the VAC test, production rates, work progress, and number of operations foreseen and performed, the data is reported for each sector separately.

The Dashboard

- Number of magnets in the tunnel: 941 MB, 336 SSS, 64 LSS.



Data for General Advancement Plot is counted by number of interventions and grouped by activities as follows:

- IC preparation: Magnet alignment, IC pre-inspection, IC released for work,
- Electrical Interconnects & QA per halfcell: PAQ, US weld of spool pieces, brazing of main busbars,
- Cryo-Lines Welding & Testing: Welding of main busbar lines M1, M2, M3, weld K1 line, K2 line, K3 line, C' line, X line. Vacuum tests of K lines, C' line, X line.
- N-Line package: Insert N line, AIV 1, AIV 2, US welding of N line, weld of large sleeve for N line.
- Beam Pipes Welding & VAC tests. VAC sector test: Welding of V1, V2, E line and VAC tests V1, V2, E line. RF test magnet chain.
- Close W bellow and Jumper.
- VAC test for sector.

This report does not include sector 7/8 which is already completed.

Sector coordination team:
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<i>Sectors</i>	<i>Started</i>
1-2 2-3 6-7	No
3-4 4-5 5-6	Yes
8-1	Yes

Sector 1-2/ Sector 2-3/ Sector 6-7: not yet opened.

Remarks:

1. The color coding of the general advancement plot was changed to match the color coding of the other plots (snapshot and production rates).
2. In the plots of the production rates, we have added the average production rate (IC/week) foreseen for the sectors and the ultimate production rates for the ideal case.
3. Production rates for sector 5-6 and 8-1 will be added from next week on.

Sector 3-4

- 7 magnets not aligned.
- Production of Work Package 1: Brazing of main busbars, ultrasonic welding of spool pieces, welds V1, V2, X, C', E lines advancing.
- Insertion of N line started.

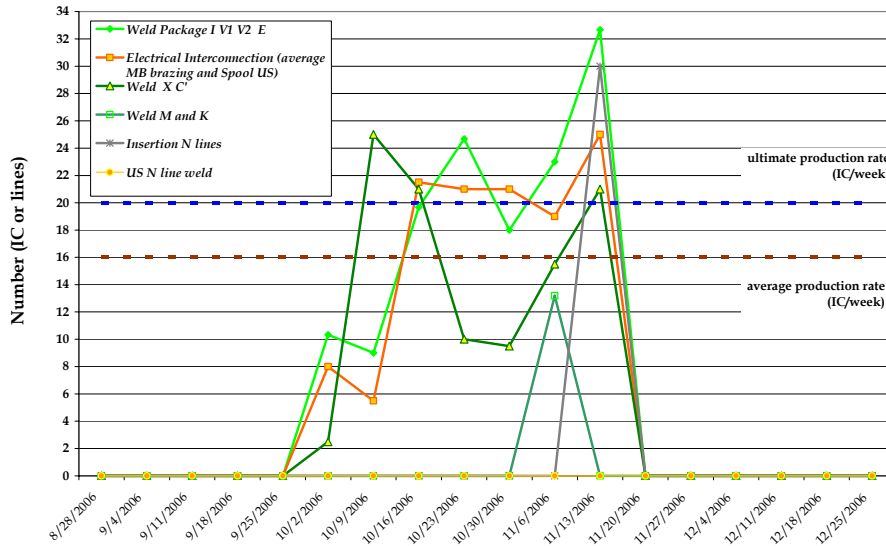


Fig1: Production rates in sector 3-4.

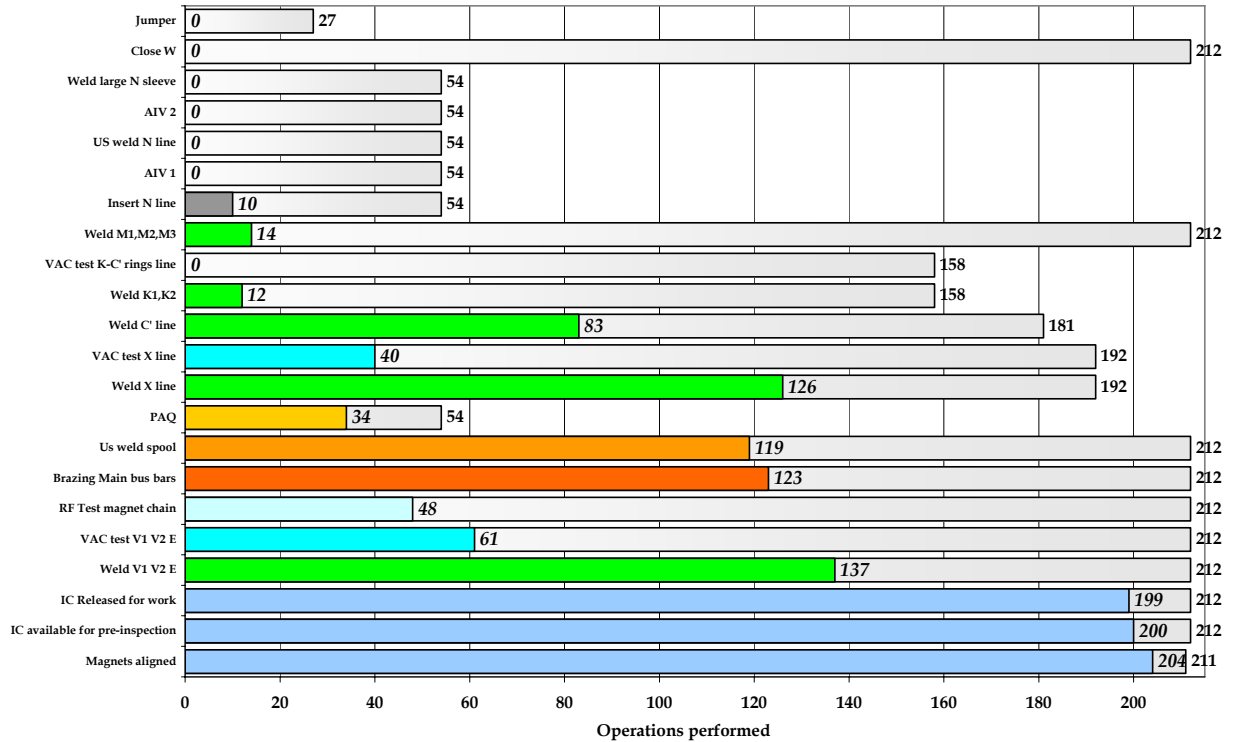


Fig. 2: Snapshot of work progress in sector 3-4 showing the number of operations achieved in total with respect to the total number of operations necessary.

Sector 4-5

- 2 magnets not aligned, welding activities ongoing.
- Continuing closure of 1st W-bellow and start of jumper activities.

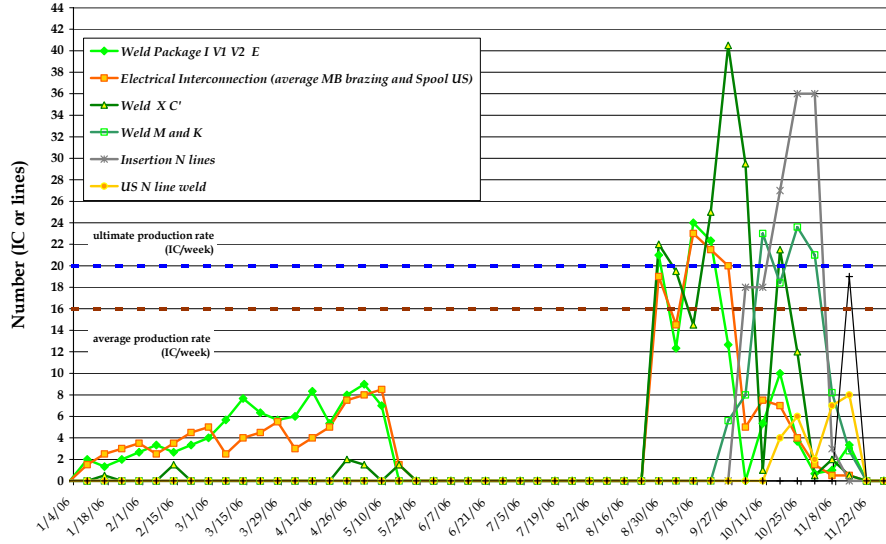


Fig. 3: Production rates in sector 4-5.

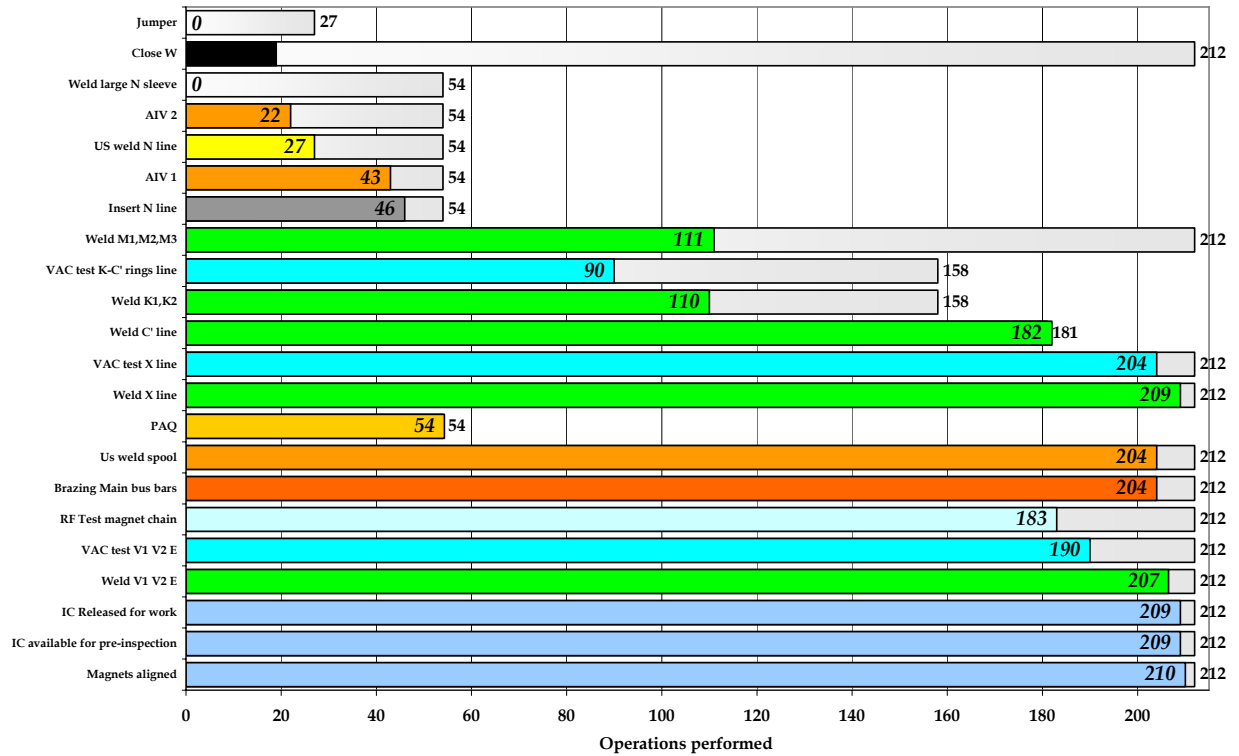


Fig. 4: Snapshot of work progress in sector 4-5 showing the number of operations achieved in total with respect to the total number of operations necessary.

Sector 5-6

- 12 magnets not aligned.
- Production of Work Package 1: Brazing of main busbars, ultrasonic welding of spool pieces, welds V1,V2, X, C', E lines has started.

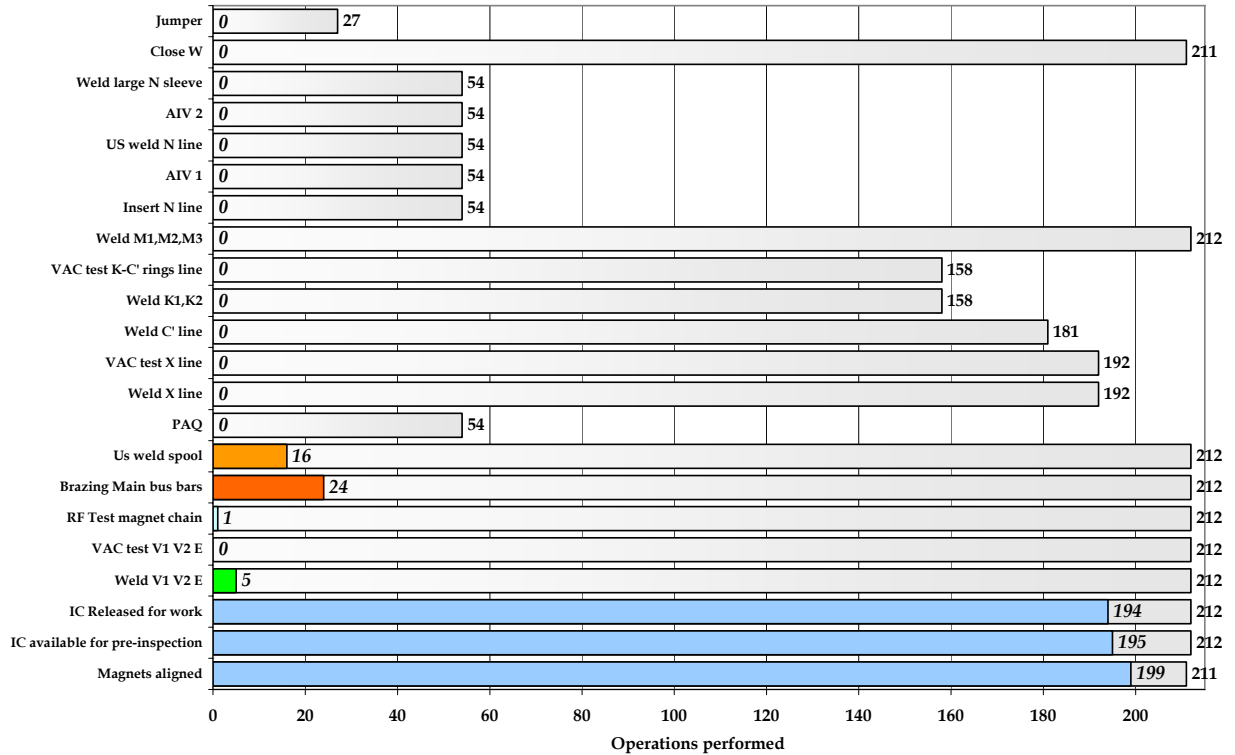


Fig. 5: Snapshot of work progress in sector 5-6 showing the number of operations achieved in total with respect to the total number of operations needed.

Sector 8-1

- Production of Work Package 1: Brazing of main busbars, ultrasonic welding of spool pieces, welds V1,V2, X, C', E lines.
- 1st MPAQ and N line insertion DS (L1) accomplished.

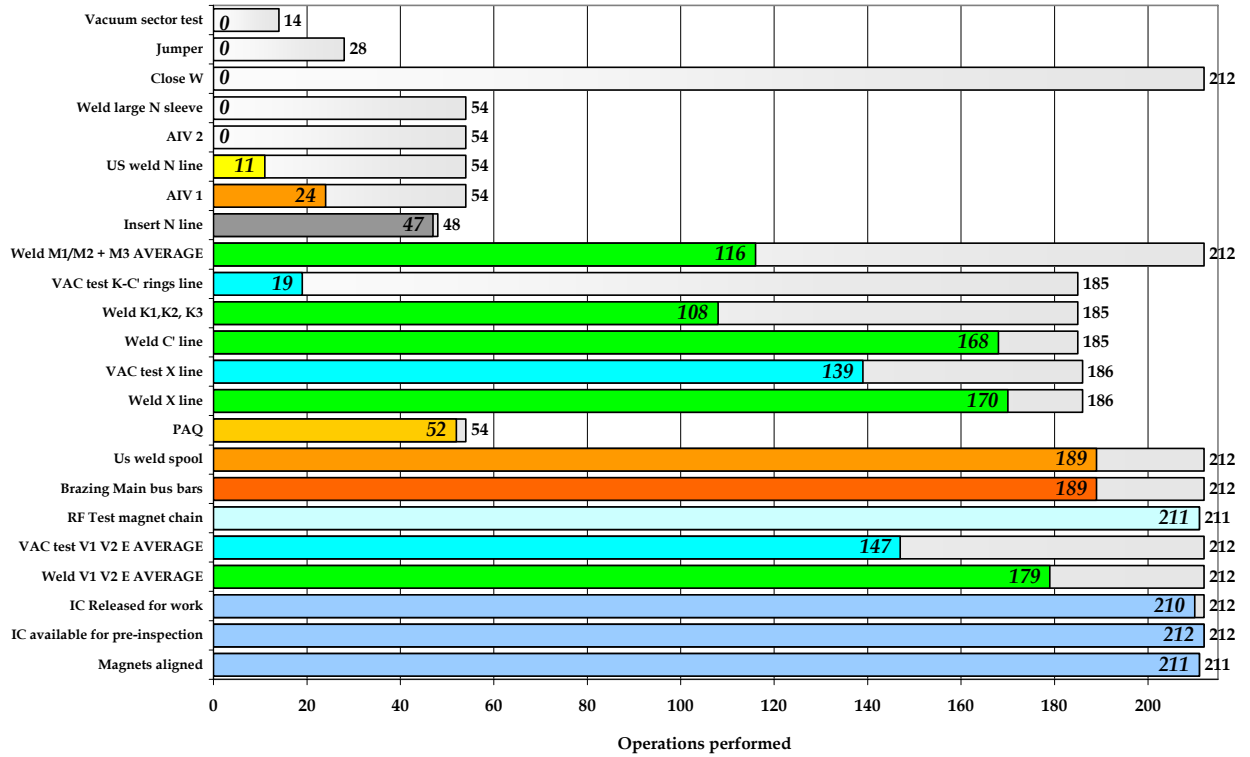


Fig. 6: Snapshot of work progress in sector 8-1 showing the number of operations achieved in total with respect to the total number of operations needed.

Vacuum Tests by Sector

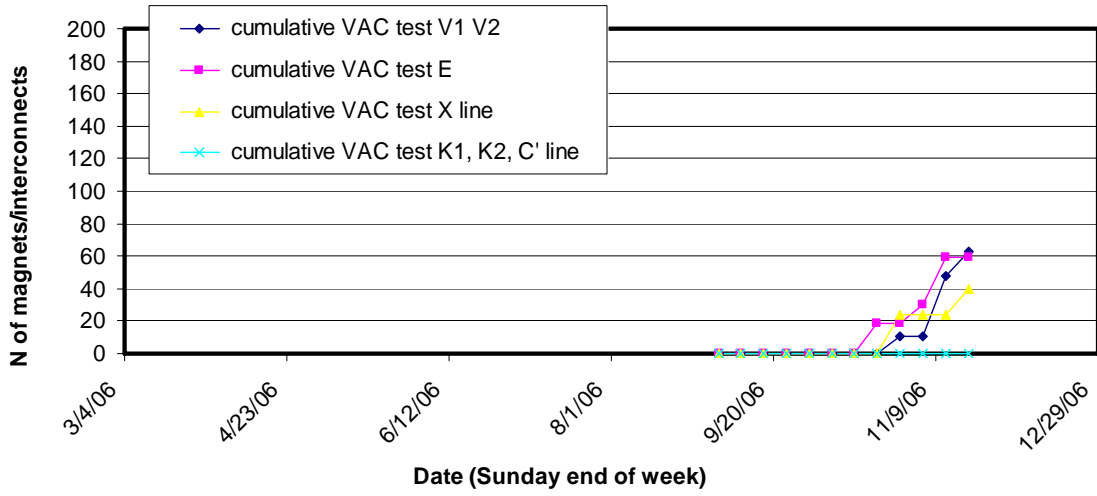


Fig. 7: Status of the VAC tests in sector 3-4.

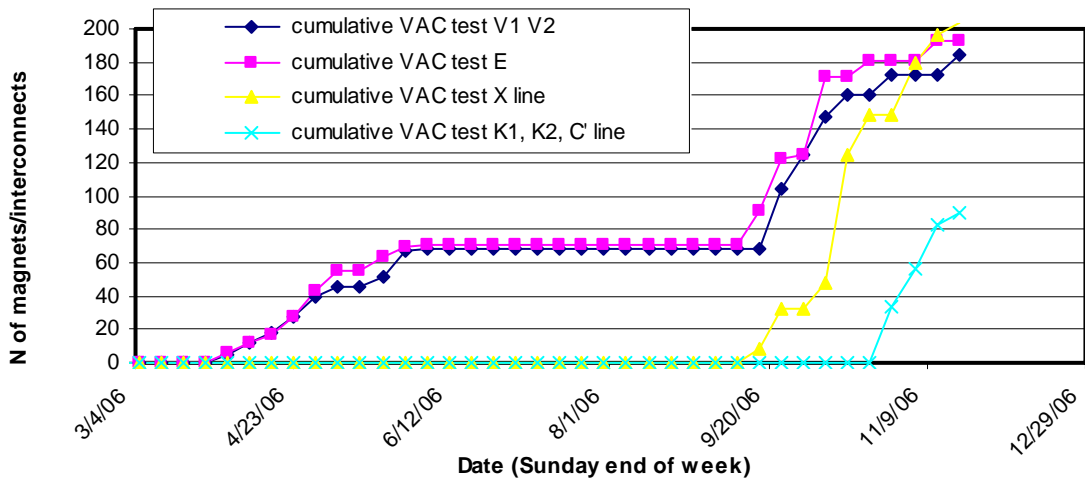


Fig. 8: Status of the VAC tests in sector 4-5.