

Status of Interconnect Works in the LHC Arcs and DS regions – week 9 (February 26 – March 3, 2007)

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

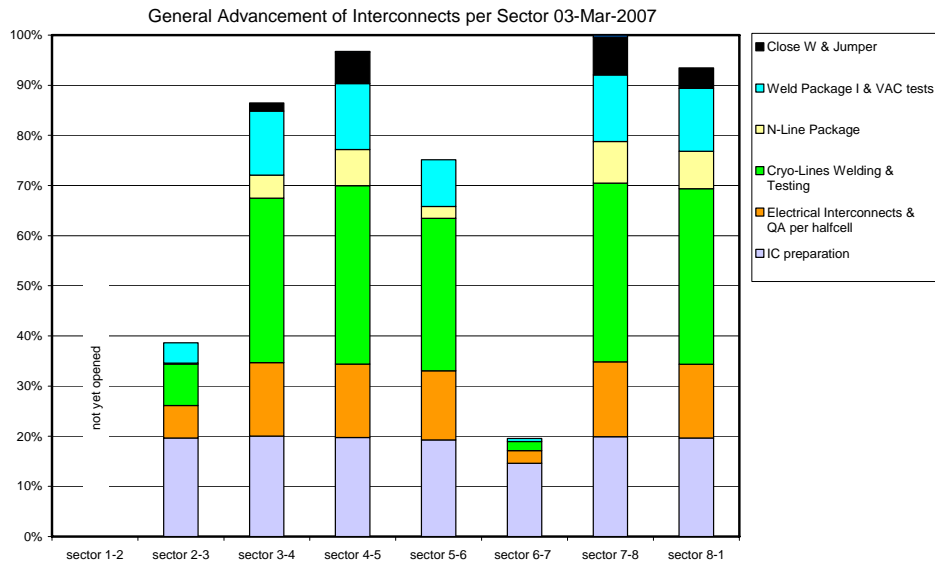
EDMS no. 826027

This report gives the status of the interconnect works in the LHC arcs and dispersion suppressor regions carried out during week 9 (February 26 – March 3, 2007) 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: 1173 MB, 453 SSS, 106 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.

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

Sector 1-2: not yet started.

Remarks:

1. The color coding of the general advancement plot matches the color coding of the other plots (snapshot and production rates).
2. The plots of the production rates also show the average production rate (IC/week) foreseen for the sectors and the ultimate production rates for the ideal case.
3. From week 9 on, we added a plot showing the general advancement per sector. For easy comparison, the starting dates in all plots is set to 1-Oct-06, except for sector 4-5.

Sector 2-3

- Start of Nline insertion in the arc,
- 2 magnets missing for alignment.

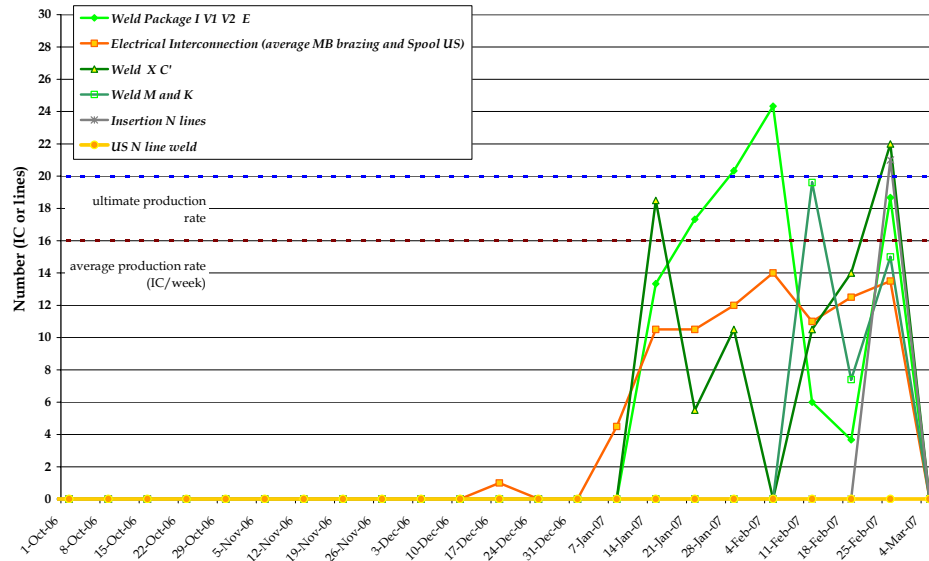


Fig. 1: Production rates in sector 2-3.

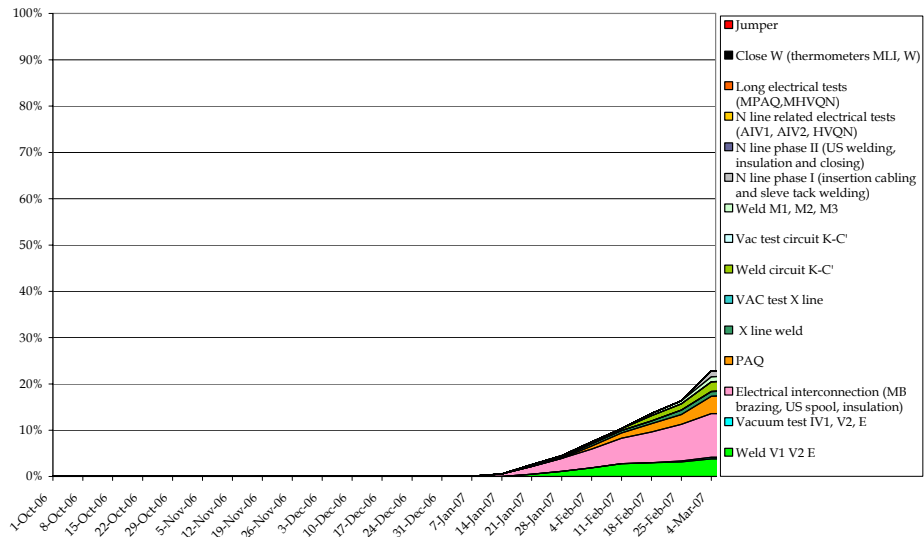


Fig. 2: General advancement view for sector 2-3.

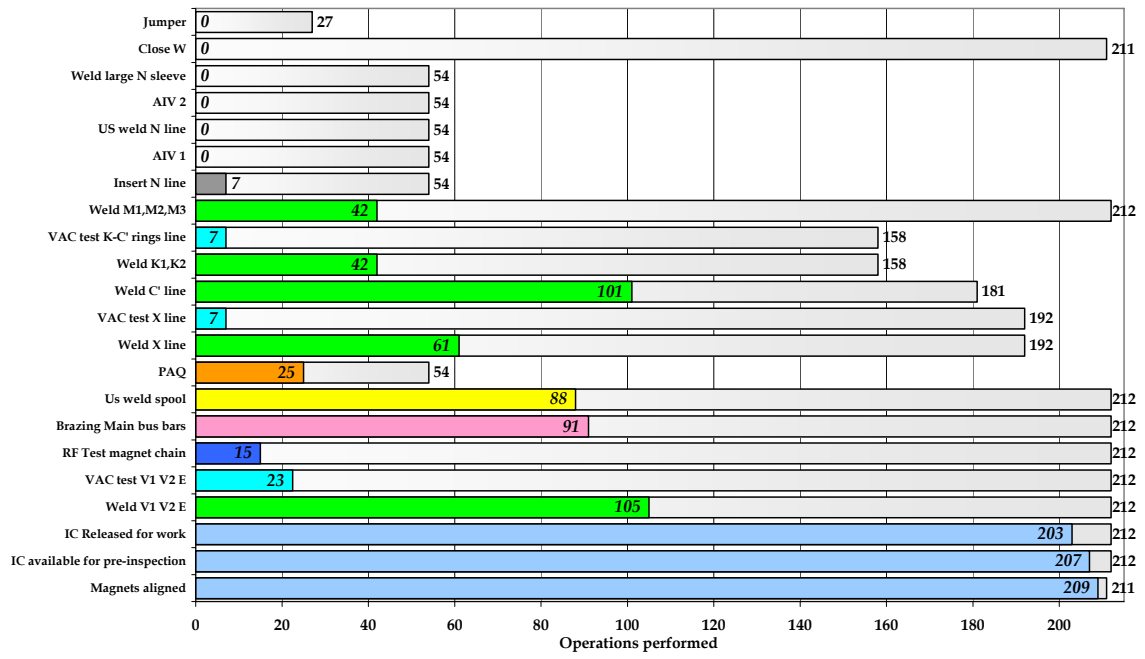


Fig. 3: Snapshot of work progress in sector 2-3 showing the number of operations achieved in total with respect to the total number of operations necessary.

Sector 3-4

- Closing of W-bellows ongoing.

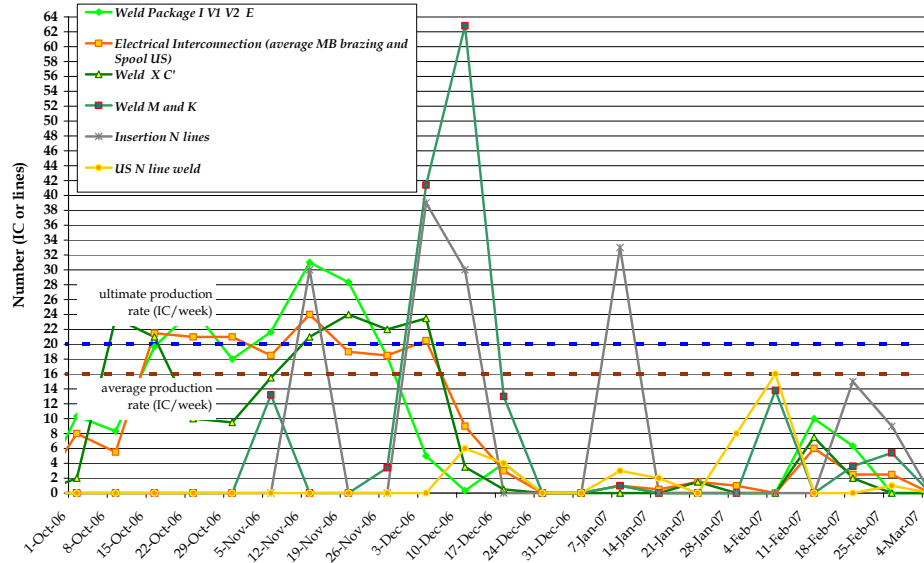


Fig. 4: Production rates in sector 3-4.

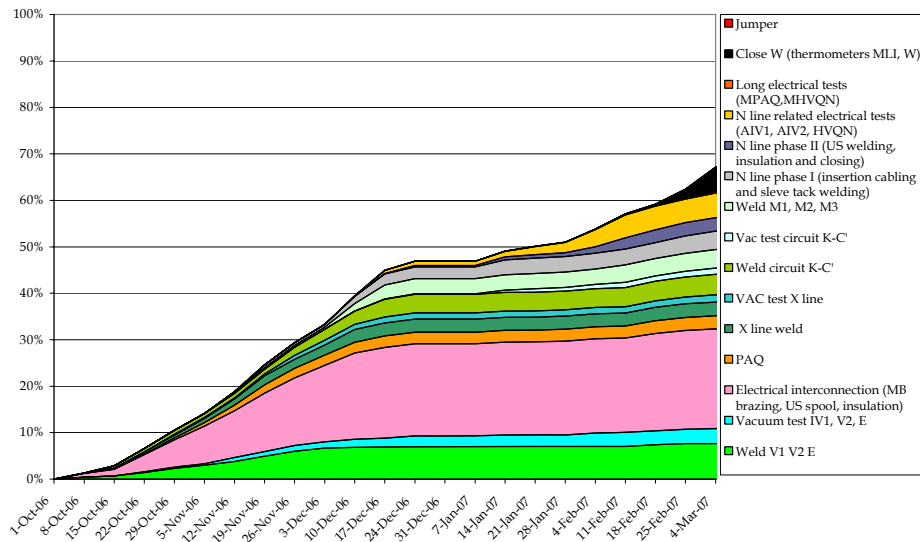


Fig. 5: General advancement view for sector 3-4.

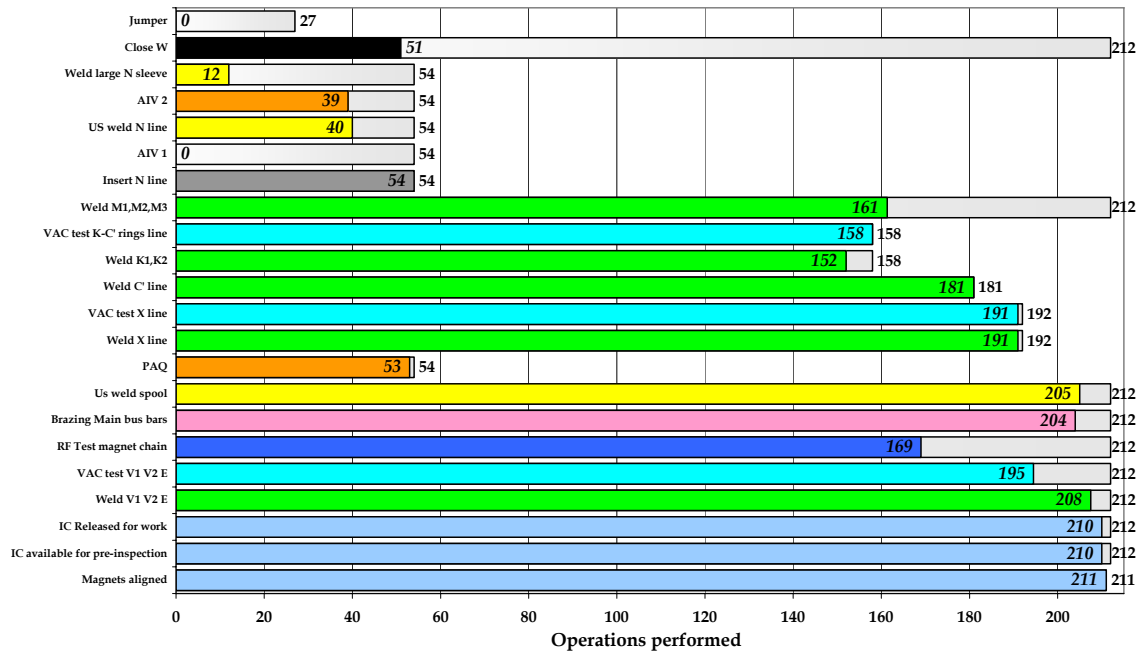


Fig. 6: Snapshot of work progress in sector 3-4 showing the number of operations achieved in total with respect to the total number of operations necessary.

Sector 4-5

- 10 vacuum sectors delivered for testing,
- 6kA line in dispersion suppressor region L5 finished.

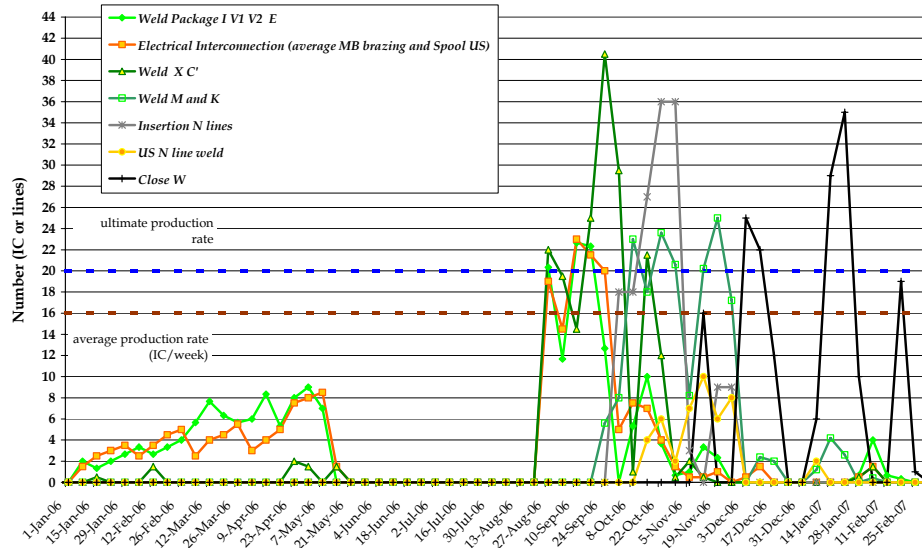


Fig. 7: Production rates in sector 4-5.

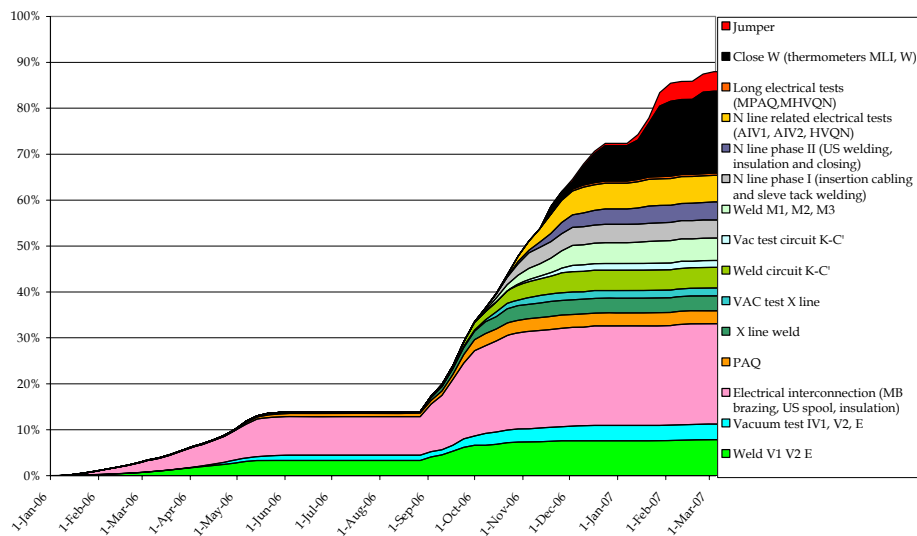


Fig. 8: General advancement view for sector 4-5.

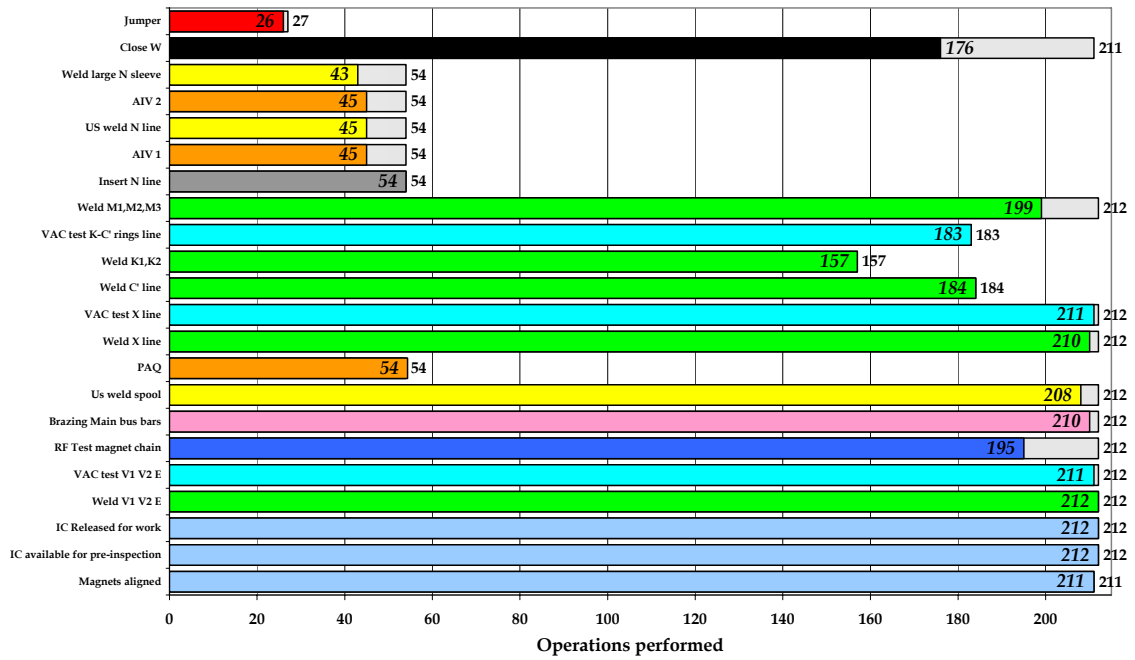


Fig. 9: Snapshot of work progress in sector 4-5 showing the number of operations achieved in total with respect to the total number of operations necessary.

Sector 5-6

- 2nd MPAQ accomplished, next HVQN is planned for next week.

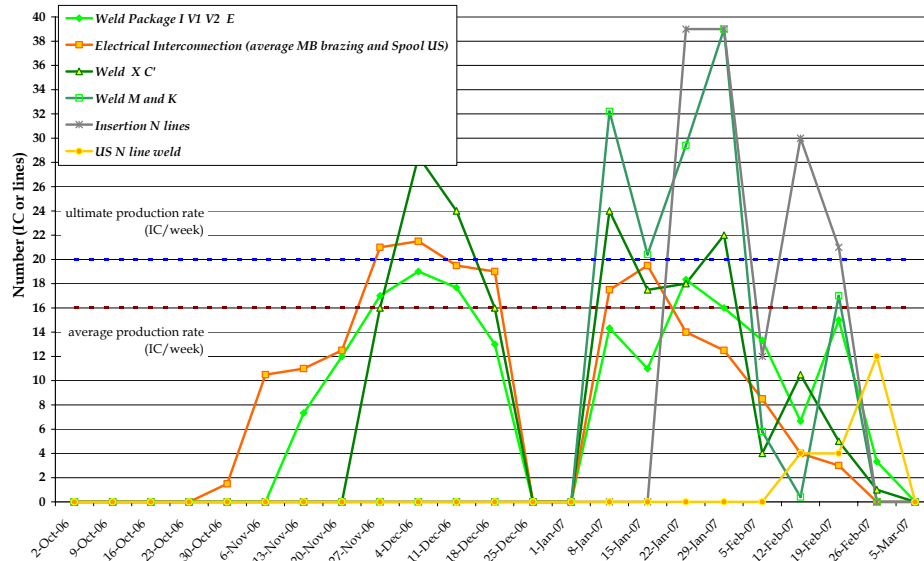


Fig. 10: Production rates in sector 5-6.

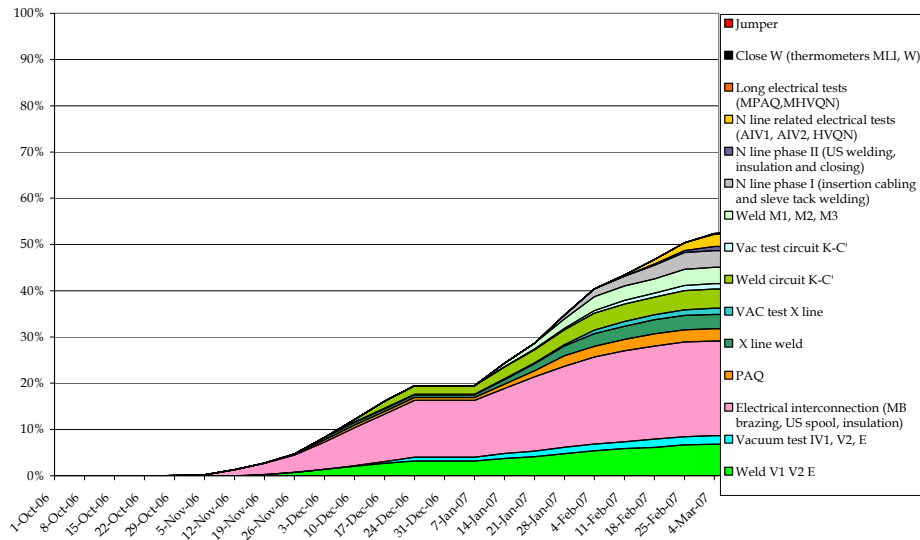


Fig. 11: General advancement view for sector 5-6.

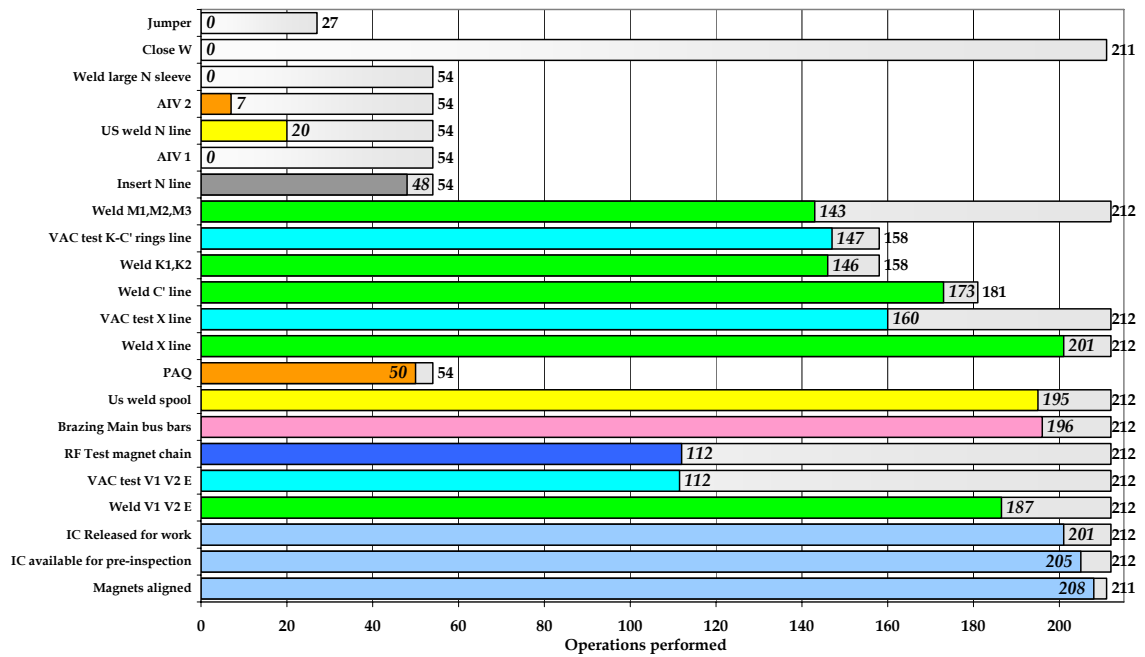


Fig. 12: Snapshot of work progress in sector 5-6 showing the number of operations achieved in total with respect to the total number of operations needed.

Sector 6-7

- Weld package V1, V2, E started.

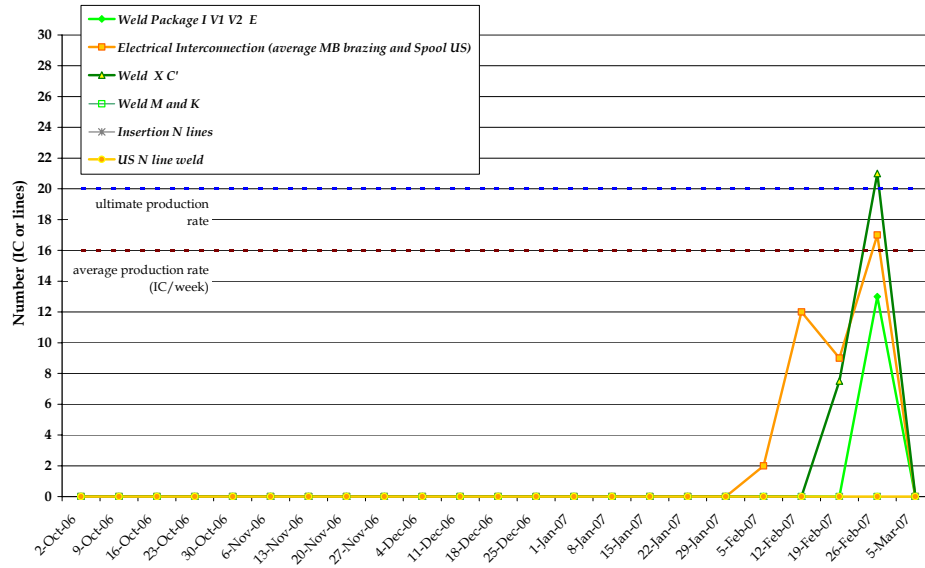


Fig. 13: Production rates in sector 6-7.

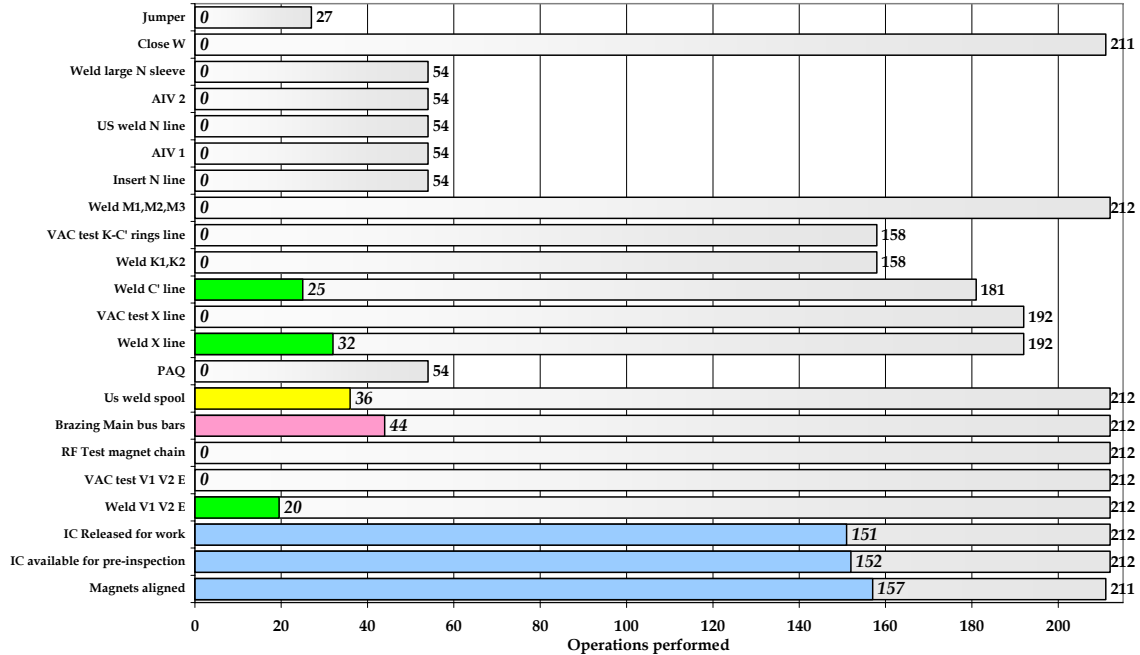


Fig. 14: Snapshot of work progress in sector 6-7 showing the number of operations achieved in total with respect to the total number of operations needed.

Sector 8-1

- Closing of W-bellows ongoing.

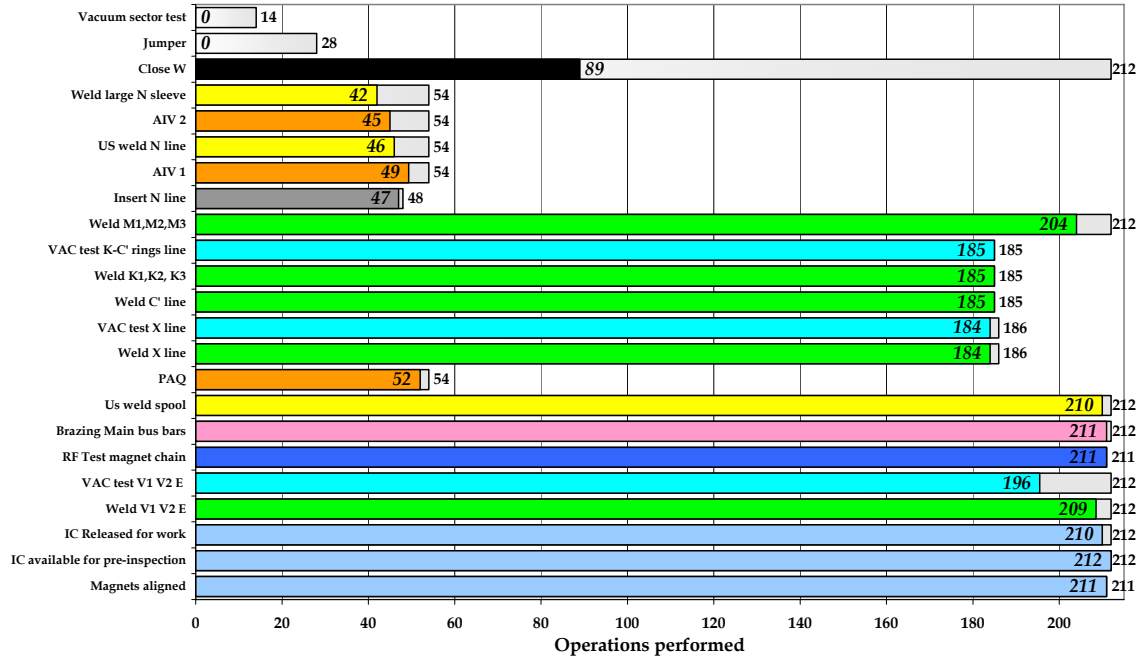


Fig. 15: Snapshot of work progress in sector 8-1 showing the number of operations achieved in total with respect to the total number of operations needed.

Vacuum Tests by Sector

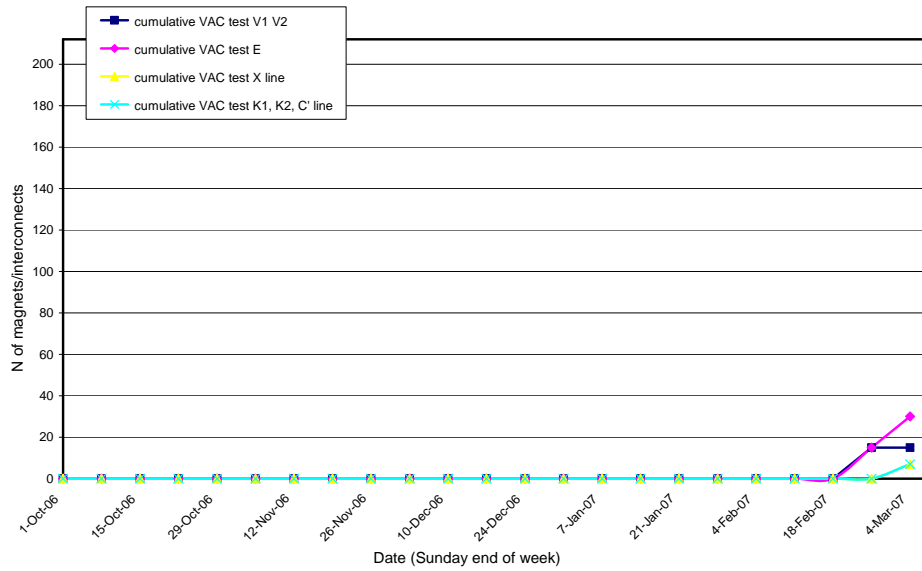


Fig. 16: Status of the VAC tests in sector 2-3.

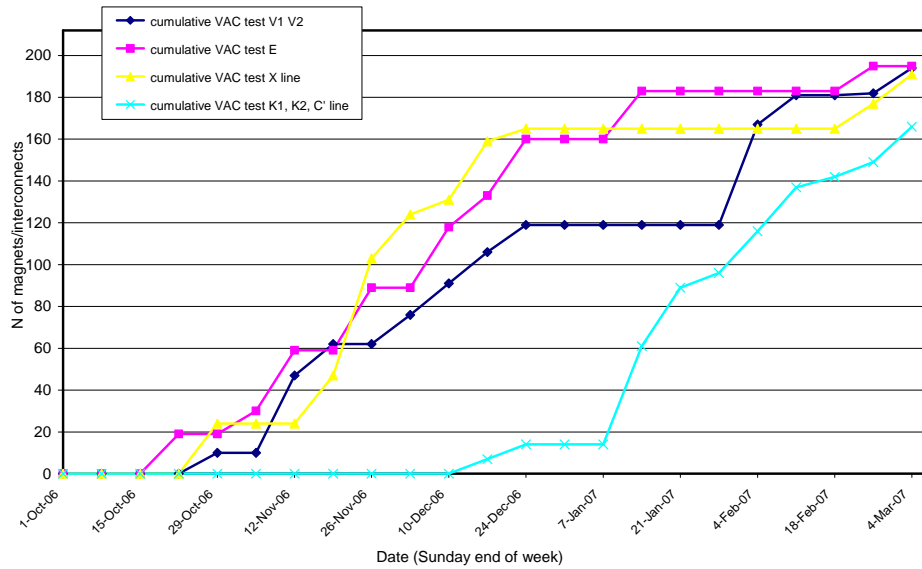


Fig. 17: Status of the VAC tests in sector 3-4.

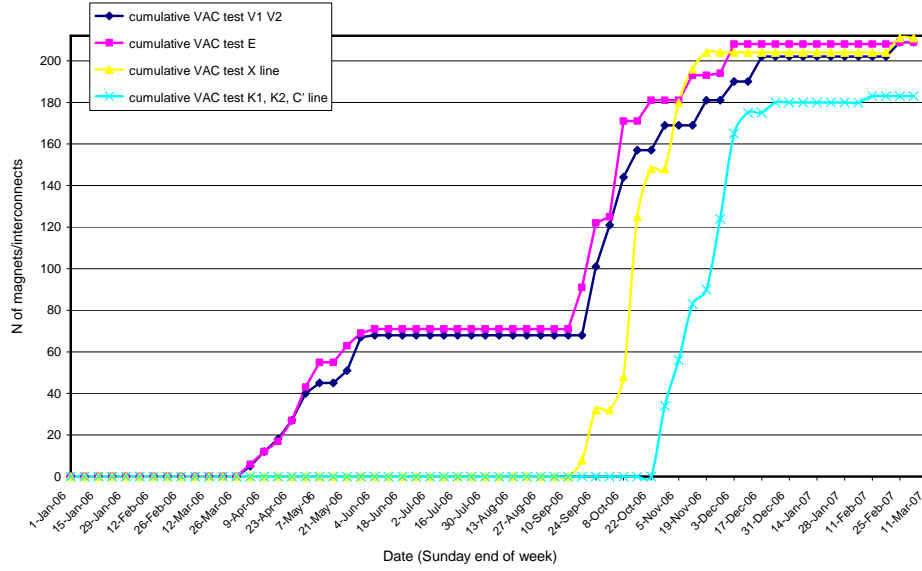


Fig. 18: Status of the VAC tests in sector 4-5.

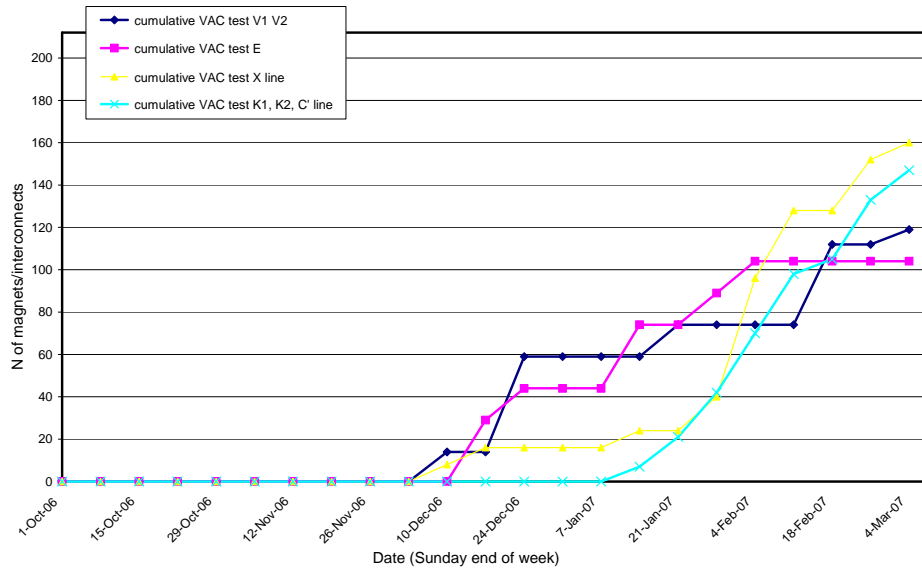


Fig. 19: Status of the VAC tests in sector 5-6.