

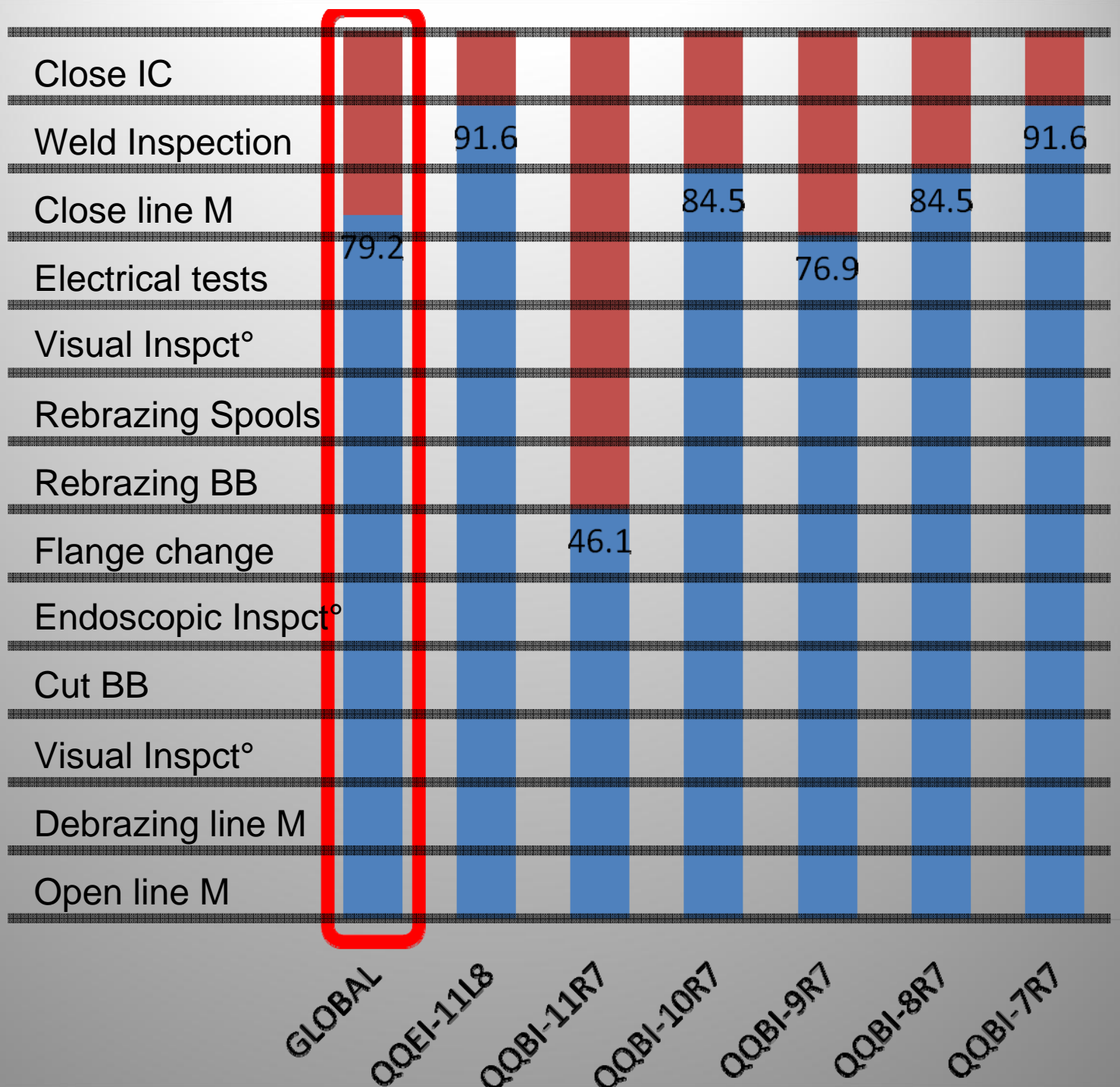
STATUS of 7-8 consolidation

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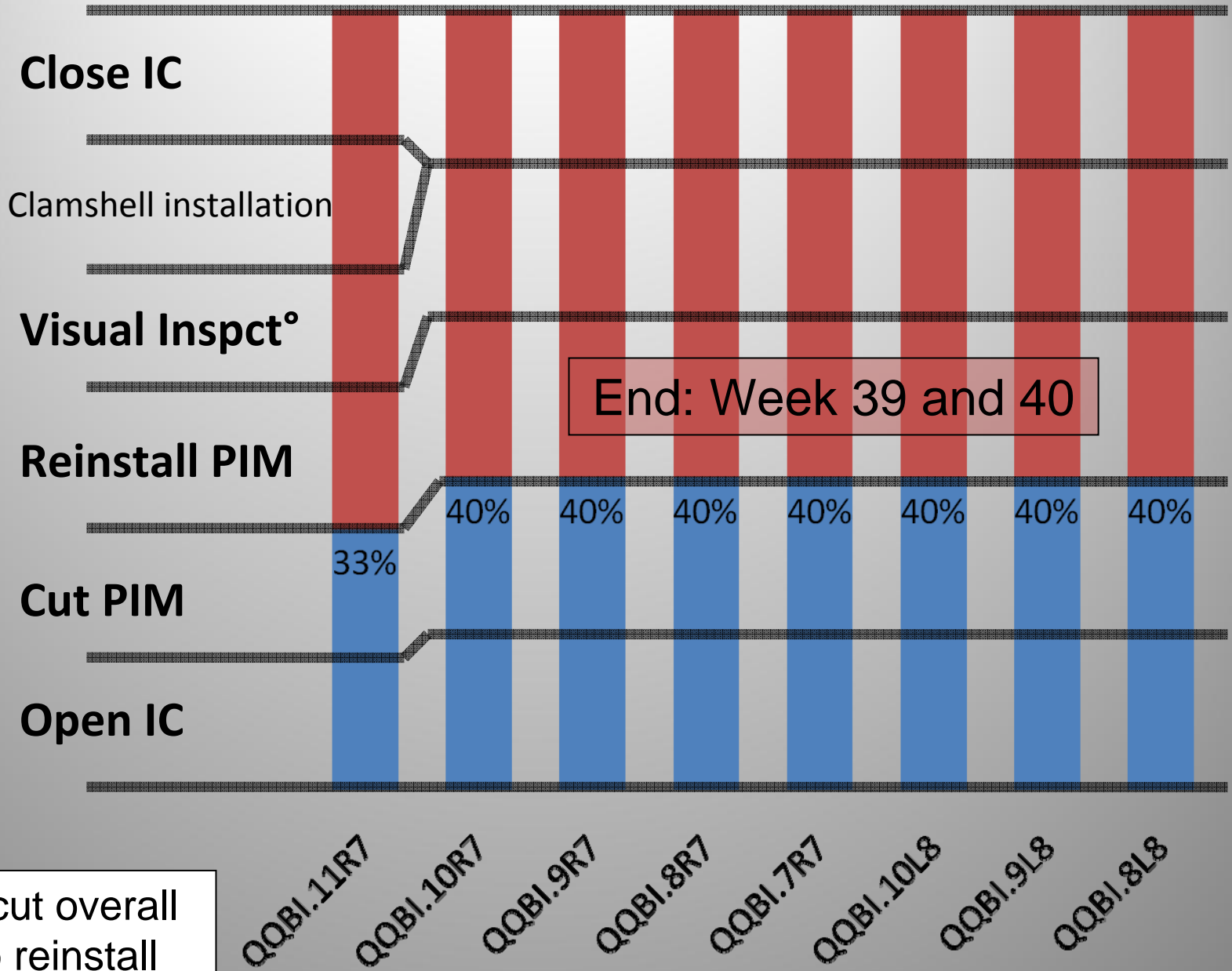
On behalf of A. Poncet, M. Felip-Hernando and many others

ICC: 21 September, 2007

SSS 500



PIM



End: Week 39 and 40

- 31 PIMs cut overall
- 2 week to reinstall

STATUS of PIMs

- The order for reinstalling the PIMs will be from R7 to L8.
- Replacement PIMs need ad-hoc machining (VAC support please).
- Some PIMs already machined (15 DS region, 4 arc replacement MB1055): assembled with RF fingers will become available for the end of wk39 (VAC: careful with types!)
- Installation (VAC support please) starting 27 September, IEG tacking and welding.
- QQBI.7R7 and QQBI.8L8 installed last to leave a short time window (1 day) for an eventual global ball test.
- Remaining 12 arc PIMs: need to be machined (VAC support please), and RF finger assembly to be available end wk 39.

MQD 22L8

- IC opened, lines M1 & M2 opened, several endoscopic inspections, M2 busbar debrased, added supplementary electrical insulation and flanges changed.
- During the MPAQ a short circuit has been found in 33L8, dipole 2050 **-REPAIRED-**
- Faulty elements: spools 9 & 10 **-REPAIRED-**
- **MPAQ repeated, new short circuit seen on spool 3, then disappeared: MEL OK for closing**
- To be done:
 - Electrical test from DFBAO in L8 to Q11R7 **Friday 21/09**
 - Brasing BB, US-spool **Monday and Tuesday 24-25/09**
 - Electrical test Q7R7 to Q11R7 **Wednesday 26/09**
 - Electrical test from DFBAN to DFBAO **26/09**
 - Welding M in QQBI.7R7 and QQBI.11R7 **27/09**

LEAK 9R7

- Still not found after tests on QDQI 7R7, QBQI 9R7, Jumper Q9R7, QQBI 9R7
- Currently: pressurisation of line C at 3 bar to verify CC' flexible on QRL service module at Q9R7.



Week 39: re-welding all the line KC', CC', flexible K2 in all sector 7-8, then VAC to continue leak localisation

LEAK 32L8

-finished-

- Leak detected in QBQI 32L8
- Localised in component flexible M2N
- Repaired and tested

Remaining Tasks

- 1334 (formerly 1055): general leak testing of all welds (**VAC support please, no information**)
- 60A DOC tests: already done from Q11L8 to Q26L8.
- DFBMC: Repair of the chimney (**End: week 40**)
- Visual inspections before closing ICs (CERN, IEG, including for instrumentation)
- **Closure of all ICs:**
 - One team started this wk38, only closing **QBBI**
 - Two teams during weeks 39, 40 and 41, closing also **QBQI** and **QQBI**
 - Will try to make VAC sectors available ASAP
 - Wk39: 2-VACSEC available; Wk40 3-VACSEC available

Inner Triplet

- **Status:**
 - Q1 repaired, reinstalled, aligned (05/09/07)
 - DFBX reinforced (31/08/07)
 - Q3-DFBX completed (wk34)
 - Q3-Q2 almost finished (waiting VAC leak testing)
 - Q2-Q1 Electrical connection and welds done
 - Pressure test of thermal screen circuit done
- **To be done:**
 - Waiting for « green light » to finish welding of PIMs Q1-Q2 (VAC please)
 - Leak Test in progress (weeks 38-39)
 - Close ICs (wk40)
 - Pressure test (wk41)

Others tasks

- Reconnection line Y – QQBI 9L8: **-finished-**
 - Done between 6th August and 5th September
- Thermometer repairs: **-finished-**
 - 4 thermometers changed
- IFS box dipole 3006: **-finished-**
 - Done between 9th & 16th August
- Various Visual Inspections: **-finished-**
 - Reinforcement nested bellow QBBI 10R7
 - Burned MLI (more inspections planned in QBQIs)
 - No other problems seen
- All ICs of sector 7-8 have been opened **-finished-**

Others tasks

- Q4-D2: Jack repairs and to be aligned **-finished-**
- Radiography of all PIMs (and measurements of PIM lengths) **-finished-**
- DFBAO: IC closed **-finished-**
- DF BMC: closure of the link **-finished-**

