

# **Status of Interconnect Works in the LHC Arcs, DS and LSS regions – week 46 (November 12 – November 18, 2007)**

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This report gives the status of the interconnect works in the LHC arcs, dispersion suppressor and long straight sections regions carried out during week 46 (November 12 – November 18, 2007) in responsibility of the interconnection arc and LSS coordination teams.

## **Sector 1-2 (completed on 05-Nov-07)**

- Repair of Helium guards ongoing
- Vacuum sectors leak tests : 3 still to be validated.
- Closure of the triplets interconnections and jumpers is ongoing (1R and 2L).

## **Sector 2-3 (completed on 30-Oct-07)**

- After pressure test foreseen for end of W46 : 6 Helium gauges to be repaired, 1 TT sensor to be repaired in QBQI.10R2 and 2 leaks in 7L3 to be found: M and C'K lines (total leak  $1 * 10^{-5}$ )

## **Sector 3-4 (completed on 18-Sep-07)**

- Repair of DFB jumper ongoing, the jumper was completely removed to be repaired.
- DSLC interconnections are ongoing. Electrical connections are completed and validated.

## **Sector 4-5 (completed on 29-Apr-07)**

- Cool-down in progress.

**Sector 5-6 (completed on 05-Sep-07)**

- ELQA revealed no short circuit on the main dipole circuit. Other circuits are under ELQA test.

**Sector 6-7 (completed on 30-Aug-07)**

- Ready for flushing.

**Sector 7-8 (completed)**

- Leak found on KD line flexible on the QRL side of the jumper Q9R7. Repair to be defined.
- Leak found on busbar bellows assembly in D1/DFBX interconnection. Activities for precise localization and repair method are on-going.

**Sector 8-1 (completed on 9-May-2007)**

- Under final leak test