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## **What repair activity can be done today on a locally warmed-up sub-sector?**

*Tuesday, 26 January 2010 10:15 (20 minutes)*

Interventions to repair components inside LHC cryostats can only be performed with the system at room temperature. The architecture of the cryogenic and vacuum system permits local warm-up of the 2.8 km arc cryostat. The method, prerequisites, means, constraints, risks and time to locally warm-up a sub-sector are compared to a complete arc warm-up, including the steps to get back to 1.9 K powering. Configuration variants in each arc sector and sub-sector are considered and their impact on the local warm-up procedure. Typical repairs such as diode exchange, helium leak repair and splice consolidation will be presented, including the recent experience of local warm-up in sectors 8-1 and 2-3 to repair DFBA flexible hoses. The necessity and impact of beam vacuum venting during local warm-up will be explained and reviewed.

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**Session Classification:** Session 3 - Optimise Interventions and Recovery from Collateral Damages on Cold Sectors