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Risk Analysis for the Different Consolidation Proposals

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In parallel with the repairs in sector 34, improvements are planned to a number of systems, to allow safe detection of faults similar to the one which caused the incident of 19 September, and to limit the damage should a similar incident nonetheless occur. These include improved bus and quench detection systems, improved pressure relief for the insulating and beam vacuum systems, and improved anchoring of the SSS to the tunnel floor. Not all of the planned mitigations, however, may be fully implemented before the restart of the LHC in 2009. I will review the potential benefits of partial or complete implementation of each of the planned improvements, individually or together with others, and conversely the potential risks (consequences) of delayed implementation. I will also review the risks that remain even after the planned consolidation is complete. Considering all proposals and the different risks, I will comment on what would be the best strategy for consolidation, and on the strategy for operations under different consolidation scenarios.

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