

Worries Show Stoppers

- RGar: Safety issue raised by the test of the BLMs with radioactive sources
- TLin: Safety during the commissioning of the RF system : co-activity with BDI
- TPet: Access safety and control system could be late: the company has not been able to deliver on time the prototypes; the system is complex (many machines, many safety chains): we could end up not understanding it and fail operating it
- RTra: the activation of some components of the machine during the 450 GeV run will result in the need to designate some areas as *radiation controlled areas* during the shutdown

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- CHau: Coactivities between installation/transport and commissioning
- CHau: Coactivities between injection tests and installation/commissioning
- RGar: Coactivities with RF in Point 4
- TLin: Commissioning with the cryogenic system

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- FBo: Parallelism of the commissioning of the last four sectors: is equipment/resources available?
- VMer: The systems tests and the reliability run for the Beam Dumping System should be included in the planning.
- ETse: The commissioning of the near beam experimental detectors (ZDC, Roman pots, TAN, etc.) in the tunnel was not completely visited
- FBo: First commissioned sector should stay at nominal temperature to allow tuning and experimenting with systems/operation

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- VMer: Are all signals available in time to orderly commission the beam dumping system ?
- LROs: Connections (malfaçons)
- LROs: Leaks in the collarettes and the bellows made with materials which was not conform
- LROs: Short circuits in the coils under e.m. forces, (i.e. during excitation). If neglected (absence of careful analysis) it could lead to the loss of a magnet (dipole 3004 syndrome).
- KHM: Robustness of electrical connections in the DFBs & lack of instrumentation (bad splice could be identified as a CL quench)

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- KHM: Process of the DFB (oscillations in the chimneys). e.g. Current lead seals may be damaged due to overcooling
- KHM: Lack of experience with superconducting magnets. The beam operation crew must be backed up by a hardware crew.
- JIG: No redundancy of the pumps on the demineralized water circuits in the tunnel

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- CHau: Coordination when installation and transport are terminated: who does it?
- PCir: When all cabling will be finished? So far, we have installed less than what was estimated necessary
- PCir: Powering of the star point for IT
- JPQ: Final alignment (smoothing) no time to do this is available for the last sectors