Monthly L2 Status Report - 20 December 2013

WBS: 04.01 – MICE

Presenter: Pierrick Hanlet

Milestone Status (Progress)

- Integrated QPS document complete
- TIARA successful
- Proton absorber under test
- MEMO defined
- SS2 leak tested in R9
- Complete UPS monitoring update

Resource Conflicts, Plan Changes and Issues

- CERN mapping team availability when SS1 is ready – depends on SS1 readiness

Late Items

- SS1 HTS lead failure
- FC2 heat leak; FC2 abandoned

Summary of Previous Month

Upcoming Work (Next Month)

- Integrated QPS design meeting to be scheduled
- Complete proton absorber test
- FC1: add MLI and re-tension supports
- SS1: HTS lead tests and cooldown
- SS2 leak tested in R9

Quarterly Plans

- Complete SS1 training & mapping
- Complete FC1 training & mapping
- Get geometry into CDB
- Complete PRY design
- DS repair and QP commissioning
- Install proton absorber
- Need new plan with reduced FC B-field

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WBS: 04.02 – 6D Cooling Demonstration

Presenter: Pavel Snopok

Milestone Status (Progress)

- Feasibility Phase I through FY15:
  - Development of a plan for a MAP 6D cooling bench test.
  - Close coordination with D&S and TD activities.
  - Development of a suite of experimental options.
  - Report during FY15.

Resource Conflicts, Plan Changes and Issues

Late Items

- 6D ICE detector conceptual design

Summary of Previous Month

- Looked at the 53 MHz bunch train in a 325 MHz cooling cell:
  - No particle loss even with multiple cooling cells
  - No longitudinal emittance growth
  - The simulation was in 1D

Upcoming Work (Next Month)

- Bunch train simulation in full 3D
- Continue matching section and detector design/simulation work

Quarterly Plans

- Continue exploring muon/proton beam options
- Continue with 6D ICE conceptual design