

SANE readiness review on June 26th:Beamline

Comments:

- 1) Setting up and aligning the chicane beam line may take more time than the schedule shows. The schedule needs to reflect the full amount of time required for installation activities. This should include pre-alignment and fiducialization of components, and especially the testing and commissioning of the chicane. This process will need to be thoroughly tested before the end of the installation shutdown; including BE, BZ, girder and target moves - to minimize impact during the run. This needs to be coordinated with the alignment group.
- 2) Work platforms (e.g. scissor lifts) will be needed to access the beamline chicane magnets. These need to be available both during the installation period, and for the run-time chicane movements.
- 3) The vertical motion control of the chicane magnets should be locked out when not in use.

Reply

- 1) Need to schedule meeting with Chris Curtis

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Comments:

4) More drawings are needed for the beamline work.

Reply

4) Jim has contacted Hall C designers

Comments:

5) Beam current monitoring (normal): re-establish the beam current and position monitors.

Reply

5) Had July 2nd meeting with ACC. Discussed need for BCM in MPS. Wasn't Decided if it would be on the "pol target" girder or further upstream. Will implement a viewer and instrument BPM with low current capability on the "pol target" girder

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Comments

6) Beam monitoring (with chicane and temporary dump): the plans here seemed inadequate. Consider putting the ion chambers above and below the beamline rather than left and right and move them further away from the dump. Make a plan to set their sensitive threshold. Implement some instrumentation (a viewer and/or a beam current monitor) that would give a positive indication that the beam is reaching the portable dump.

Reply

6) Discussed with Bill Vulcan , at the July 2nd meeting and later with Hari Areti. Having ion chambers near the beam dump didn't seem useful given the background from dump. Having a viewer in after helium bag didn't seem useful since the beam will be low current and diffuse at that location.

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Comments

7) Beam Fast Shut-Down (FSD): review your plans for which instruments can initiate an FSD signal. Possible signals could be over-current indicators from beamline BCM's, and under-current indicators from beamline magnet power supplies.

Reply

7) At July 2nd meeting decided to have FSD on:

- Slow raster

- BE and BZ dipoles (use voltage)

- Polarized target field (use hall probe)

- Max current limit on MCC BCM in MPS

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Comment

8) Designate an "owner" of the beam rastering systems to provide on-call assistance in case of malfunctions. Consider putting MCC in control of the raster magnet operation.

Reply

8) Need to contact Bill Gunning and see if he will take "ownership" of the hardware for the fast and slow raster.

In contrast to last time the slow raster was used, no epics interface exist for the slow raster. Hall C users will have to change the settings.

SANE readiness review on June 26th Beam Operations

Comment

1) Coordinate with MCC to review beam setup and delivery procedures.
Incorporate any lessons learned from the HKS and GEn experiment

Reply

1) At July 2nd meeting discussed this issue, Need follow up meeting

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Working with outside groups

1) Develop an over-all plan for alignment needs in coordination with the survey group. Alignment specifications should be clearly defined for each of the major components, in particular the hodoscopes, Cerenkov, and Big Cal. In addition, the positions of magnet(s) for the chicane move need to be defined and transmitted. Drawings and location information should be made available well ahead of installation.

2) Safety documents (Installation COO, TOSPs), when finalized, need to be clearly communicated to all affected groups; including alignment, vacuum, EES,

Reply

- 1) At July 2nd meeting discussed this issue. Need meeting with Chris Curtis.
- 2) Decide to include TSOP in the HCLIST for the target installation