

g2p/GEp Beam Transport Meeting Minutes

Attendees: J.P. Chen, E. Folts, B. Dillon-Townes, M. Ivenco, K. Allada, D. Williams, T. Michalski, R. Lauzé, P. Degtiarenko, A. Gavalya, S. Higgins

The following is a summary of issues discussed during the g2p/gep Beam Transport Meeting:

- There was discussion surrounding the action items still open on the list. None have been closed. Tim still needs to communicate issue with Slow Raster to the team that will address it.
- The remaining items were covered under the specific topics below.
- Note that there was to be a presentation regarding the BPM, but it will be rescheduled due to John Musson's availability.

STATUS:

OPTICS:

- No status update

MAGNETS:

- Nothing new to report

BEAM TRANSPORT:

- Butch will send out the Experimental Definition Drawing with a focus to get feedback on finalizing the nomenclatures. These are also listed in the requirements document. Those required to clarify are Yves Roblin (CASA) and Eric Forman (Accelerator Ops).
- It is being recommended that the existing beampipe heading into the new upside down girder be shortened 6" to accommodate the new girder assembly. Feedback is that this is OK. A small section will be added on to regain the length for future experiments rather than swapping out the entire length of pipe.
- We reviewed the upside down girder assembly layout. All appears correct per last week's discussion.

RAD CON:

- Nothing new to report

SOFTWARE:

- Nothing new to report.

VACUUM:

- No status update

INSTALLATION:

- No status update

g2p/GEp Beam Transport Meeting Minutes

ALIGNMENT:

- No status update

EES – I&C:

- Stripline BPM design may not be used in 12 GeV. What is the impact to g2p?

EES – OPS:

- Nothing new to report

EES – SSG:

- No status update

TARGET/DUMP DESIGN ACTIVITIES:

- Nothing new to report

g2p/GEp Beam Transport Meeting Minutes

Action Items:

| Action Item # | Date Added | Action Item | Responsible Individual | Due Date | Date Closed |
|---------------|------------|--|-------------------------|----------------|-------------|
| 11 | 9/28/10 | Define the settings for chicane magnet current monitoring. | Y. Roblin | 10/19/10 | |
| 12 | 9/28/10 | Define if instrumentation is required for the low current dump. If so, what should be monitored? | TBD | TRACK to close | |
| 14 | 10/5/10 | Need to assess if two harps will fit on the articulating arm. | L. Dillon-Townes | 10/12/10 | |
| 16 | 10/5/10 | Understand why there is a hole in the center of the rastered beam that comes from the faster raster/slow raster combination. Stated to be a waveform generator issue. Clarify this. If not HW, then probably SW? | C. Cuevas B. Gunning | 10/26/10 | |
| 17 | 10/5/10 | Get Accelerator Ops involved in reviewing the LC dump monitoring issues. | T. Michalski | 10/26/10 | |
| 18 | 10/19/10 | Set up separate subject meeting on BPM, alignment, harps, calibration issue(s). | T. Michalski | 10/26/10 | |

Design Decisions:

| Date | Decision Item |
|---------|--|
| 8/31/10 | The transport line exiting the FZ2 will have no vacuum connection to the target chamber. A beryllium window will terminate that line. |
| 8/31/10 | M20 BPM's were decided to be used on the transport line exiting the FZ2. |
| 9/14/10 | The Target will only be set at 80° and 90°, not 70°, per Al Gavalya. |
| 9/14/10 | The gap between the beam tube end and the target window was discussed. It should be minimized – consider 1 cm as a maximum gap. Re-opened during 9/21/10 meeting – look at using helium bag. |
| 9/30/10 | The requirement for BPM accuracy is 0.1mm – per discussion at BPM requirements meeting and subsequent analysis/e-mail from K. Allada. |
| | |
| | |