

g2p/GEp Beam Transport Meeting Minutes

Attendees: T. Michalski, E. Folts, C. Curtis, D. Williams, M. Bickley, JP Chen, A. Camsonne, R. Taylor, P. Degtiarenko

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

- It was noted that the plastic shroud for the SR needs to be installed. The SR blower needs to be installed as well.
- Major schedule items still have not changed. Get the mechanical parts in. Get the harp chassis to SW. Get the BPM/BCM receiver board ordered. Right now, it looks like 2B alignment the first week of November.
- The issue with the target magnet is of no issue to the beamline development. We need to stay on track for getting done by mid November. Want to be out of the way for final installation and alignment of the target area.
- Review is rescheduled to 10/24.

STATUS:

OPTICS:

- Nothing new to report.

MAGNETS:

- Nothing new to report.

BEAM TRANSPORT:

- Region 1 – nothing new to report.
- Region 2 – nothing new to report.
- Region 3 – Arms received and in the hall. Upstream girder needs rework. Similar changes made to Downstream girder (in-process at supplier). Arm moving mechanism finally signed off (awaiting delivery date).

RAD CON:

- Nothing new to report.

SOFTWARE:

- Needs the Harp Controller chassis – didn't get Monday (Tuesday???)
- Need to get the final BPM chassis as some of the SW settings will be based on the actual final hardware.

VACUUM:

- Upside down girder under vacuum and leak checked.

INSTALLATION:

- SR plastic shroud and blower final installation needed (before final checkout).

ALIGNMENT:

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- Wants to get tentative date for 2B alignment and FZ2 alignment. Moving to a point when most other work has to be done in order to get the accelerator returned to service.

EES – I&C:

- Harp Controller due to SW yesterday, but should be there by the end of the day. Chad has been making a heroic effort to get the FW complete! We really appreciate the effort.
- BPM board is getting a final spin. Not complete yet. Mid October looks questionable.

EES – DCP:

- No report – however, supposed to do full power test of FZs and associated PSs.

EES – SSG:

- No report.

TARGET/DUMP DESIGN ACTIVITIES:

- Target magnet issue found. Estimate of 2 months to correct and get into service (December 1).

PHYSICS

- Review planned for 10/24.

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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	TBD	
36	1/11/11	BPM testing with new electronics in North Linac – ½ done	J. Musson / D. Williams	???	
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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. Will use helium bag – issue closed.
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.
12/6/10	Use 5.5" M15 antenna style BPMs in articulating arm!
12/6/10	JP committed to a 2 cm raster, if need be, to accommodate threading the beam through the articulating arm.
1/11/11	Decision to use harps in tune mode rather than low current.
4/5/11	We will not accommodate a special 1.1 GeV run with the target at the pivot. There will be no change to the FZ2 stand design and no need to reposition the chicane. Evaluation of 1.1 GeV beam through 2.2 GeV chicane position to be performed.
4/18/11	It was agreed that we will be moving the target up 9cm for the 1.1, 1.7, and 2.2 GeV runs when the target is in the 87cm upstream location. For the 1.1 and 1.7 GeV runs, the target magnet will be at 2.5 T, versus the 5 T for all other runs. Issue resolved without having to raise the target.
4/26/11	Decision to use 4'x4' platform for Al magnet and address any safety issues – rather than alternative to use existing stand in BSY which requires rework.