

g2p/GEp Beam Transport Meeting Minutes

Attendees: T. Michalski, P. Kjeldsen, E. Folts, B. Dillon-Townes, C. Curtis, Z. (Vick) Chen, JP Chen, P. Zhu, M. Ivanco, K. Allada

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

- It was stated that 5 – RG-58 cables are required for the SR, not the 4 previously stated. Kalyan stated that 6 were identified and labeled. Action Item closed.
- In order to get the SR and Calorimeter aligned this week, the stand needs to be grouted. Tim to contact Mark Wehl to understand their plan. (Update, they were already down there working on it after the meeting.)
- Ed reported that the FZ PSs had been wired for AC input. There are long runs already in the cable trays to be used for hooking up to the magnets. Junction boxes will be used between the PS and the magnets.

STATUS:

OPTICS:

- Nothing new to report.

MAGNETS:

- Need to get the AI magnet delivered to the hall – contact Installation crew (Update – AI magnet moved to the hall on Friday, 7/8).

BEAM TRANSPORT:

- Region 1 – nothing new to report.
- Region 2 – nothing new to report.
- Region 3 – The FZ2 stand is complete and shipping today (Update – received on 7/7, installed 7/8).
- Finishing up the arms and girders – Still working to finalize the orchestrated movement between the FZ2 and viewer/articulating arm – should be complete mid next week.
- Harps – most parts due in next week so Tony can start assembly and wiring. Flag not due until end of July.
- Viewer – another spring is installed and ready to test. (Update – first spring was rubbing on the OD – new spring works well.)
- FZ2 stand controller needs to be wired so as to exercise the stand for alignment.
- Magnet mounting brackets shipped with FZ2 stand.

RAD CON:

- Nothing new to report.

SOFTWARE:

- Tony to get a harp chassis to Pam for SW development needs.

VACUUM:

- No status report.

INSTALLATION:

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- No status report

ALIGNMENT:

- Plan to align SR and calorimeter by week's end.

EES – I&C:

- No report as Dave is on vacation. Follow up with Omar on potential impact of Qweak needs.

EES – DCP:

- Polarity switch is the final activity to complete PS updates. Then wiring and testing magnets.

EES – SSG:

- No status update

TARGET/DUMP DESIGN ACTIVITIES:

- No status update

PHYSICS

- Nothing to report.

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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	???	
37	2/1/11	Resolve open question on FZ magnet power supplies.	V. Chen	7/15/11	
53	6/21/11	RG-58 cabling from SR electronics rack to counting house – qty 5.	K. Allada	9/1/11	7/5/11
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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.