

g2p/GEp Beam Transport Meeting Minutes

Attendees: K. Allada, T. Michalski, P. Kjeldsen, E. Folts, R. Lauzé, A. Camsonne, D. Williams, E. Forman, A. Gavalya, T. Dela Cruz, JP Chen, Z. (Vick) Chen, L. Dillon-Townes, N. Wilson, J. Heckman, JP Chen, H. Smith, J. Musson, S. Yang

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

- The harp on the upside down girder does not support the Moeller for g2p; the Moeller will be used.
- The resistance on the FZ magnets was measured yesterday. Value ~.08 ohm. Vick will send the data to Tim.
- The FZ magnets are ready to be taken out of the physics storage building now. Neil to get them.
- Slow Raster update:
 - Spare magnets and beampipe (Chin's locker)
 - Wavetecs – only three, they drift, looking at new Agilents (\$2,500-\$3,000)
 - Will use 1 wavetec to control the 30 Hz
 - Ops needs a written statement that SR won't be MCC controlled.
 - Ed will build a block house around the SR PS.
 - Looking for a place to setup and test – room 122.
 - William to send signal generator info to JP so we can get collaborator to buy Agilent.
- New positions defined for 20 degree runs. Yves sent details to Butch.
- Need to get tolerance on FZ current settings. Will determine max limits for PSs.
- Action Item 32 – schedule from Pete to Dave.
- Action Item 35 – need new equipment from John Musson.
- Schedule for installation being developed – meeting right after this one.

STATUS:

OPTICS:

- No status update

MAGNETS:

- Will look into returning BD magnets at the end of the experiment. Can Hall A get reimbursed? Tim to talk to Leigh Harwood.
- FZ magnets ready to move.

BEAM TRANSPORT:

- Region 1 support structure due 2/17.
- Region 2 drawing update.
- Region 3 FZ1 stand design is in final review. FZ2 stand – quote on movement mechanism.
- Harps – need to adjust – order end of February.

RAD CON:

- Nothing new to report.

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SOFTWARE:

- Nothing new to report

VACUUM:

- Awaiting harps and studs for completing upside down girder assembly.

INSTALLATION:

- No status update

ALIGNMENT:

- Nothing to report.

EES – I&C:

- Remapping of calorimeter chassis – otherwise ready to roll.

EES – OPS:

- PS cabling – order via JP/collaborators.

EES – SSG:

- No status update

TARGET/DUMP DESIGN ACTIVITIES:

- No status update

PHYSICS

- Alex to get test plan for BCM from Musson. Need to get amps repaired. Pull preamps out.

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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	By 3/11	
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	TBD	
23	11/16/10	Verify polarity switch for FZ magnets. We have one spare in house if needed.	R. Lauzé	12/30/10	
24	11/23/10	Get FZ magnets from Physics Storage	T. Michalski / N. Wilson	3/1/11	
31	1/4/11	Procure, build, and test 14 Transport style BPM RF Modules	D. Williams / O. Garza	5/14/11	
35	1/4/11	BCM testing at low current, w/ helicity, in January.	J. Musson / O. Garza	Answer by 1/11/11	
36	1/11/11	BPM testing with new electronics and stripline BPM in North Linac	J. Musson / D. Willaims	TBD	
37	2/1/11	Resolve open question on FZ magnet power supplies.	V. Chen	2/15/11	
38	2/15/11	Ops needs written statement that SR won't be MCC controlled.	JP Chen	3/15/11	
39	2/15/11	Tolerance on FZ current.	Y. Roblin	TBD	

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.

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