<u>Attendees:</u> T. Michalski, C. Curtis, D. Williams, P. Kjeldsen, JP Chen, A. Camsonne, L. Dillon-Townes, G. Kharashvili, K. Slifer, J. Heckman, R. Taylor, M. Weihl, M. Ahmad, A. Freyberger, Z. Chen, S. Wood, Y. Roblin

The following is a summary of issues discussed during the g2p/GEp Beam Transport Meeting. The format has changed slightly as we are focusing on the punch list of items required to be prepared for beamline commissioning. Target date for completion is the end of the day on Friday, 12/9/11.

<u>System</u>	<u>Activity</u>	<u>Status</u>	<u>Owner</u>	<u>Comments</u>
REGION 1				
ВСМ	Build Receiver	Not ready	Chris Norris/Keith Cole	Same device as for the BPM - 4 channel receiver 11/22 – D. Williams reports using 2 channel (same as Qweak) versus 4 channel. Need to confirm.
ВСМ	Test Receiver	Not ready	Chris Norris/Keith Cole	
ВСМ	Old BCM Receiver Hardware Removal	Not ready	Chris Norris/Keith Cole	
ВСМ	New BCM Receiver Hardware Installation	Not ready	Chris Norris/Keith Cole	
ВСМ	Finalize BCM Software / EPICS Screens	Not ready	Pam Kjeldsen / George Lahti	
ВСМ	Field Testing Hardware & Software	Not ready	Chris Norris/Keith Cole	
ВСМ	BCM data to Hall A DAQ	Not ready	Chris Norris/Keith Cole	11/22 – confirm it is DAQ only, with monitoring by ops via EPICS (no tune to the BCM)
ВСМ	BCM Final System Checkout	Not ready	Chris Norris/Keith Cole	
Slow Raster	Close up the SR bunker	Not ready	Neil Wilson	
Slow Raster	Install and test the blower	Not ready	Neil Wilson	
Slow Raster	Align the fans to the shroud	Not ready	Neil Wilson	
Slow Raster	Check out the cooling fans	Not ready	Neil Wilson	
Slow Raster	Hot Checkout	Not ready	Bill Gunning	
Slow Raster	OSP for Hall A	Not ready	Chris Cuevas	
Slow Raster	Beacon????	Not ready	Bill Gunning	There is a sign on the shroud which mentions a beacon. No beacon is installed. 11/22 – Need to confirm with Bill Gunning.
Slow Raster	Field map of SR to Yves Roblin	Not ready	Alexandre Camsonne	
Calorimeter	Re-instating the FSD interlocks	Not ready	Rich Wright / Tommy Michaelides	11/22 - Get Scott Windham involved. Set up a meeting to review all

				FSD/Interlocks – action Tim MIchalski
Calorimeter	Remove PS used for testing	Not ready	Mahmoud Ahmad	
Calorimeter	Calibrating the F-cup circuit	Not ready	Mahmoud Ahmad	
Calorimeter	Writing beam test plans	Not ready	Mahmoud Ahmad	11/22 – Will be complete for 12/9.
Calorimeter	Executing beam tests	READY — post beam startup	Mahmoud Ahmad	11/22 - Will occur post 12/9. No further testing is required prior to start of beam.
Vacuum	Vacuum Checkout	Not ready	John Heckman	
Alignment	2B Alignment	Not ready	Chris Curtis	11/22 – All 2B alignment to be done at one time.
REGION 2				
Beam Pipe	Install Lead on new Beam Pipe	READY	Ed Folts	
Vacuum I&C	Install Vacuum Instrumentation	Not ready	Dave Williams / Rick Gonzales	
Vacuum I&C	Final Vacuum Instrumentation Checkout	Not ready	Dave Williams / Rick Gonzales	
Superharp	Install Harp Controller	Not ready	Tony Dela Cruz	
Superharp	Field Testing HW and SW for Harp Controller	Not ready	Tony Dela Cruz	
Superharp	Final Harp System Checkout	Not ready	Tony Dela Cruz	
BD Magnets	Hot Checkout	Not ready	Simon Wood	11/22 – Need to perform polarity check.
BLM	Hot Checkout	Not ready	Rich Wright / Tommy Michaelides	
Vacuum	Vacuum Checkout	Not ready	John Heckman	
Alignment	2B Alignment	Not ready	Chris Curtis	
REGION 3				

Chicane	Install Arms and Supports	Not ready	Neil Wilson	11/22 – 1 more hole to drill. Arms and support should be up by 11/23.
Viewer	Install YAG crystal	Not ready	Tony Dela Cruz	11/22 – Must be done prior to installing girder in hall.
Chicane	Install Viewer Girder	Not ready	Neil Wilson	11/22 – Awaiting camera holder – due 11/28. Awaiting flange from MS.
	Restring harp fork		Tony Dela Cruz	11/22 – John H. to get harp delivered back to Tony.
Superharp		Not ready	<u>'</u>	11/22 – Harp needs to be restrung.
Chicane	Assemble Diagnostics Girder	Not ready	John Heckman	11/22 - Halp fleeds to be restruing.
Chicane	Pre-align Diagnostics Girder	Not ready	Chris Curtis	
Chicane	Install Diagnostics Girder	Not ready	Neil Wilson	14/00 0 44/00
Chicane	Camera Holder	Not ready	Butch Dillon-Townes	11/22 – Due 11/28.
Chicane	Vacuum Window	Not ready	Butch Dillon-Townes	11/22 – Due 11/28.
Alignment	2A Alignment on Straight Through position	Not ready	Chris Curtis	Alignment at other positions will be done later. 11/22 – will be done after girders are installed, before vacuum work.
Vacuum	Install bellows and vacuum hookup	Not ready	John Heckman	
Vacuum	Pump Down Chicane	Not ready	John Heckman	
Alignment	2B Alignment on Straight Through position	Not ready	Chris Curtis	Alignment at other positions will be done later.
Chicane	Straight through spacers	Not ready	Butch Dillon-Townes	
Viewer	Install Viewer System w/ Camera	Not ready	Tony Dela Cruz	
Viewer	Field Testing HW and SW for Viewer	Not ready	Tony Dela Cruz	
Viewer	Final Viewer System Checkout	Not ready	Tony Dela Cruz	
BPM – 4 Ch	Build Receiver	Not ready	Chris Norris/Keith Cole	11/22 – This activity is for the 4 channel receiver
BPM – 4 Ch	Test Receiver	Not ready	Chris Norris/Keith Cole	11/22 – This activity is for the 4 channel receiver
BPM – 4 Ch	Finalize BPM Software / EPICS Screens	Not ready	Pam Kjeldsen / Brian Bevins	11/22 – This activity is expected to take 3 weeks. Therefore, it was decided that we can use the SEE Transport electronics for the commissioning.
BPM – SEE	Verify we have spare SEE Transport modules	Not ready	Dave Williams/Pete Francis	11/22 – Need to channels for 2 BPMs on diagnostics girder.
ВРМ	Old BPM Receiver Hardware Removal	Not ready	Pete Francis	
BPM – SEE	New BPM Receiver Hardware Installation	Not ready	Pete Francis	

BPM – SEE	Finalize BPM Software / EPICS	Not ready	Pam Kjeldsen / Brian Bevins	11/22 – This should take minimal effort as it is consistent with previous
	Screens			methods. Using M15 antenna style BPMs.
BPM – SEE	Field Testing Hardware &	Not ready	Pete Francis	
	Software			
BPM – SEE	BPM data to Hall A DAQ	Not ready	Pete Francis	
BPM - SEE	BPM Final System Checkout	Not ready	Pete Francis	
FZ Magnets	Install Klixon on AI magnet	Not ready	Simon Wood	
FZ Magnets	Verify FZ polarity	Not ready	Simon Wood	
FZ Magnets	Run full power tests on the FZ magnets	Not ready	Vick Chen / Simon Wood	
FZ Magnets	Install signage for the magnets and power supplies	Not ready	Vick Chen	
FZ Magnets	Install beacon on AI Magnet	Not ready	Ed Folts	
HALL A				
PSS	Update FSD Screens	Not ready	Rich Wright	
PSS	Install Ion Chambers	Not ready	Tommy Michaelides	Cables pulled but not terminated. 11/22 – Currently short 2 ion chambers – lent to Hall C. Will refurbish 2 ion chambers from Hall C dump for use in Hall A on g2p.
PSS	Hot Checkout - No Beam	Not ready	Rich Wright / Tommy Michaelides	
PSS	Update Gold Masks	Not ready	Rich Wright / Tommy Michaelides	
PSS	Update MPS Documentation	Not ready	Rich Wright / Tommy Michaelides	
PSS	FSD for Target Beam Pipe	Not ready	Rich Wright	Verify that this is not a pressure system (<15 psi)
PSS	Implement all Interlocks	Not ready	Rich Wright	Rich has a separate list for g2p/Hall A. 11/22 – No radiator, Sniffer, UPS SW Crash required for g2p. Add SR, target pressure, target mechanism FSD. No target, local dump, active chicane for g2p beamline commissioning in December; will need for experiment after target is installed.
Hall Dump	Verify that the viewer is	Not ready	Tony Dela Cruz	
Viewer	functional			
Compton	Hot checkout	READY	Alexandre Camsonne	No detector in place, therefore it will not be used during g2p.
CASA	Commissioning Plan	Not ready	Yves Roblin / Eric Forman	

Physics	Final Run Plan	Not ready	JP Chen / Karl Slifer	Will be running at 0, 90, and 7 degrees target angle.

Other Notes:

- The calorimeter can take up to between 1 and 2 microamps. There should be no issue with levels used for commissioning.
- The calorimeter will require 3 hours to cool down between tests.
- The FZ1 is expected to perform between 300 G and 8 kG. Vick verified that Bill Merz has reviewed the PS selection and it will function acceptably for the range of performance required.
- The SEE Transport style BPM electronics will be used for commissioning the beamline since the HW/SW for the new 4 channel BPM receiver does not appear to have a chance of finishing by 12/9. It is designed to work down to 100 nA of beam current and has been known to work down to 75 nA. We can perform commissioning at a current in the range of the SEE Transport electronics.
- Weekly meetings reinstated until the beamline is complete and commissioned.