<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.

System	<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.
BCM	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)
BCM	BCM Final System Checkout	Not ready	Chris Norris/Keith Cole	
BCM	Temperature Monitoring	Not ready	Pam Kjeldsen	11/29 – Should be able to take the SW from Hall B and apply it to Hall A
Slow Raster	Close up the SR bunker	READY	Neil Wilson	11/30 – Complete per Ricky Taylor
Slow Raster	Install and test the blower	READY	Neil Wilson	11/30 – Complete per Ricky Taylor
Slow Raster	Align the fans to the shroud	READY	Neil Wilson	11/30 – Complete per Ricky Taylor
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. 11/30 – Was a Hall C requirement. Need to verify now if Hall A requires beacons on this magnet pair. Note that there is no beacon on fast raster.

Slow Raster	Field map of SR to Yves Roblin	Not ready	Alexandre Camsonne	11/29 – Alex reported that this has been sent to Yves. No confirmation yet if this is all that is required.
Calorimeter	Re-instating the FSD interlocks	READY	Rich Wright / Tommy Michaelides	11/22 - Get Scott Windham involved. Set up a meeting to review all FSD/Interlocks – action Tim Michalski 11/29 – Interlocks defined at today's meeting.
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	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	
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Vacuum	Vacuum Checkout	Not ready	John Heckman	

Alignment	2B Alignment	Not ready	Chris Curtis	
REGION 3				
Chicane	Install Arms and Supports	READY	Neil Wilson	11/22 – 1 more hole to drill. Arms and support should be up by 11/23. 11/23 - Complete
Viewer	Install YAG crystal	READY	Tony Dela Cruz	11/22 – Must be done prior to installing girder in hall.
Chicane	Install Viewer Girder	READY	Neil Wilson	11/22 – Awaiting camera holder – due 11/28. Awaiting flange from MS. 11/28 - Complete
Superharp	Restring harp fork	READY	Tony Dela Cruz	11/22 – John H. to get harp delivered back to Tony.11/28 – Harp returned and should be restrung. Verify complete.
Chicane	Assemble Diagnostics Girder	Not ready	John Heckman	11/22 – Harp needs to be restrung.11/30 – Window, gaskets, harp, and flange delivered to vacuum lab.Fiducialization of harp is underway.
Chicane	Pre-align Diagnostics Girder	Not ready	Chris Curtis	
Chicane	Install Diagnostics Girder	Not ready	Neil Wilson	
Chicane	Camera Holder	READY	Butch Dillon-Townes	11/22 – Due 11/28.
Chicane	Vacuum Window	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	
Chicane	TOSP	Not ready	Butch Dillon-Townes	No required for commissioning run as the chicane will not be operational – straight through only.
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	Not ready	Pam Kjeldsen / Brian Bevins	11/22 – This activity is expected to take 3 weeks. Therefore, it was

	Screens			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 two 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	11/28 – Info on BPM nomenclature sent to Pete.
BPM – SEE	Finalize BPM Software / EPICS Screens	Not ready	Pam Kjeldsen / Brian Bevins	11/22 – This should take minimal effort as it is consistent with previous methods. Using M15 antenna style BPMs.
BPM – SEE	Field Testing Hardware & Software	Not ready	Pete Francis	
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	READY	Vick Chen	
FZ Magnets	Install beacon on AI Magnet	Not ready	Ed Folts	
HALL A				
PSS	Update FSD Screens	Not ready	Rich Wright/George Lahti	11/29 – Meeting held to finalize all input for the FSD screens.
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 Viewer	Verify that the viewer is functional	READY	Tony Dela Cruz	
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	
Septum Magnet/PS	OSP	READY	Jack Segal	11/29 – Complete and approved. Need to attach to PS.
Physics	Final Run Plan	Not ready	JP Chen / Karl Slifer	Will be running at 0, 90, and 7 degrees target angle.
Physics	Commissioning OSP	READY	JP Chen / Karl Slifer	Written and signed. 11/30 – need a copy for operations
Accelerator Operations	Copies of COO, RSAD, ESAD for signoff by Ops	Not ready	Tim Michalski/JP Chen/Karl Slifer	Added 11/30
Accelerator Operations	Updated target list and restrictions	Not ready	Tim Michalski/JP Chen/Karl Slifer	Added 11/30
Accelerator Operations	A list of any beamline components NOT controlled or monitored by ops.	Not ready	Tim Michalski/JP Chen	Added 11/30
Accelerator Operations	Spokesperson to give a short talk to the operations group meeting.	Not ready	JP Chen/Karl Slifer	Added 11/30 – need to do 2x – Wednesdays 9-11
Accelerator Operations	Arrange to do a tour of the hall so the operations staff could have a look at the changes to the hall prior to the start of beam operations.	Not ready	Tim Michalski/JP Chen	Added 11/30 -(perhaps in conjunction with the talk)

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.