

# Machine Studies

## Draft Schedule for Run03-1, 2018

September 25 0800 – October 2 0800

Time	Descriptions	Studiers	SR Status
<b>Monday, September 24, 2018</b>			
<b>Pre-Studies</b>			
0900-1200	Set-up for RF conditioning with beam	Schroedr/Flood/OPS	Stored beam & injection
1200-2400	RF conditioning with beam	OPS	Stored beam & injection
1500-1900	BPM RTFB and datapool check-out (I>50mA)	Sereno	Stored beam & injection
1500-1700	Initial pinhole camera set-up	Yang	Stored beam & injection
<b>Tuesday, September 25, 2018</b>			
0000-1200	RF Conditioning with beam (cont)	OPS	Stored beam & injection
0800-1200	BPM RTFB and datapool check-out (I>50mA) -- (Continued is needed)	Sereno	Stored beam & injection
1200-1600	BPLD validations	Hahne/Sereno	Stored beam & injection
1600-2000	X-ray BPM check-out	Hahne	Stored beam & injection
2000-2400	Initial lattice set-up	Sajaev, Xiao	Stored beam & injection
<b>Wednesday, September 26, 2018</b>			
0000-0500	BPM offset measurement (S29) & Orbit recovery	Xiao	Stored beam & injection
0500-0900	Injector PEM testing	Fystro	Limited injection
0900-1200	APD and bunch purity optimization setup	Harkay, Yang, Yao	Stored beam & injection
1200-1600	Booster momentum offset variation studies (frequency changes -- no SR	Harkay, Yao	No SR beam

	beam)		
1600-2100	Injector kicker optimization	Yipeng Sun	Stored beam & injection
2100-2400	Injection optimization	Sajaev	Stored beam & injection
<b>Thursday, September 27, 2018</b>			
0000-0100	Injection optimization (continued)	Sajaev	Stored beam & injection
0100-0800	IEX checkout	Xiao	Stored beam
0800-0900	RF waveguide switch and make adjustments to RF4	RF Group	No Beam
0800-1130	Update QPC Controller software	Zientek	No injection
0800-1130	Troubleshoot L4 modulator PLC	Meyer	No injection
0830-1130	Laser alignment	Dooling	Access Linac
0830-1130	investigate SR power supply Interlock rack (old acis) drawings/wiring	Puttkammer	No beam
0830-1130	End to end tests	Belcher	SR in CA
0900-0930	Prepare for SR access -- Zone D	OPS	No Beam
0930-1030	Re-route XBPM Grid signals at S27ID Current to Voltage conversion chassis	Blake, Dombrowski	Access Zone D
1130-1230	Recovery SR & injectors	OPS	Stored beam & injection
1230-1630	Commissioning TFB system. Need single bunch and 24 singlet fill	Yao, DiMonte, Shang	Stored beam & injection
1630-1830	complete PAR kicker waveform scan with beam	Yao	Stored beam & injection
1830-2300	Triple RHB lattice	Emery, Yipeng Sun	Stored beam & injection
2300-2400	6GeV setup	Emery	Stored beam & injection
<b>Friday, September 28, 2018</b>			
0000-0300	6GeV setup (continued)	Emery	Stored beam & injection
0300-0800	Injection optimization and P0 feedback setup	Sajaev	Stored beam & injection
0800	Fill SR 24 singlets, OC and RTFB	OPS	Stored beam &

	<b>running</b>		<b>injection</b>
<b>0800-1100</b>	<b>Booster emittance measurements using the FLAG station 3 in the BTS</b>	<b>Wootton</b>	<b>No injection</b>
<b>0800-1100</b>	<b>Test GRID electronics with 27ID GRID</b>	<b>Paskvan, Sereno</b>	<b>Stored beam</b>
<b>0830-0930</b>	<b>Test effect of vibratory plate ompactor with beam</b>	<b>Flood, Russell</b>	<b>Stored beam</b>
<b>1100-1300</b>	<b>Booster lattice/efficiency optimization</b>	<b>Yao, Yipeng Sun</b>	<b>No injection</b>
<b>1300-1800</b>	<b>Booster momentum offset variation studies. Requires rf source frequency changes</b>	<b>Harkay, Yao</b>	<b>No SR beam</b>
<b>1300-1700</b>	<b>Update the ion pump controller software at 28 ID and 15 ID. gate valves will need to be closed</b>	<b>Zientek</b>	<b>No SR beam</b>
<b>1800-2400</b>	<b>CPU set-up</b>	<b>Xiao</b>	<b>Stored beam</b>
	<b>Saturday, September 29, 2018</b>		
<b>0000-0900</b>	<b>Top-up verification</b>	<b>OPS</b>	<b>Stored beam &amp; injection</b>
<b>0900-1300</b>	<b>RG1 beam checkout</b>	<b>Yine Sun</b>	<b>Limited injection</b>
<b>1300-1700</b>	<b>PAR digital camera commissioning</b>	<b>Calvey, Yang, Wootton</b>	<b>Limited injection</b>
<b>1700-2400</b>	<b>Top-up verification</b>	<b>OPS</b>	<b>Stored beam &amp; injection</b>
	<b>Sunday, September 30, 2018</b>		
<b>0000-0900</b>	<b>Top-up verification</b>	<b>OPS</b>	<b>Stored beam &amp; injection</b>
<b>0900-1400</b>	<b>CPU/IEX set-up II if needed</b>	<b>Xiao</b>	<b>Stored beam</b>
<b>1400-2400</b>	<b>OPEN</b>		
	<b>Monday, October 1, 2018</b>		
<b>0000-0600</b>	<b>OPEN</b>		
<b>0600-1000</b>	<b>Commissioning script work</b>	<b>Sajaev</b>	<b>Stored beam &amp; injection</b>
<b>1000-1400</b>	<b>Final lattice setup</b>	<b>Sajaev</b>	<b>Stored beam &amp; injection</b>
<b>1400-1800</b>	<b>Final orbit set-up</b>	<b>Xiao, Yipeng</b>	<b>Stored beam &amp;</b>

		<b>Sun</b>	<b>injection</b>
<b>1800-1900</b>	<b>Abort kicker set-up</b>	<b>Harkay</b>	<b>Stored beam &amp; injection</b>
<b>1900-2400</b>	<b>6ID GRID XBPM commissioning with controllaw</b>	<b>Yang, Sereno</b>	<b>Stored beam &amp; injection</b>
<b>Tuesday, October 2, 2018</b>			
<b>0000-0200</b>	<b>Final pinhole camera set-up/verify bunch purity</b>	<b>Yang</b>	<b>Stored beam &amp; injection</b>
<b>0200-0600</b>	<b>Commission script work</b>	<b>Sajaev</b>	<b>Stored beam &amp; injection</b>
<b>0630-0800</b>	<b>Prepare for user Operations (24 singlets – Top-Up)</b>	<b>Ops</b>	<b>Stored Beam &amp; Injection</b>