

# Machine Studies

## Schedule for Run03-1, 2019

September 24th 0800 – October 1st 0800

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SR Status</b>
	<b>Monday, September 23, 2019</b>		
0800-1630	Downtime - SR Dipole P.S.		
1630-1845	Set up injection and check aperture of S25 BPM with 20 mA, inclusion	Emery/OPS	Stored beam & injection
1845-2400	RF conditioning with beam	OPS	Stored beam & injection
	<b>Tuesday, September 24, 2019</b>		
0000-1100	RF conditioning with beam (cont) Hold at 115 mA for 20 minutes	OPS	Stored beam & injection
0000-0400	BPM RTFB and datapool check-out (parasitic to conditioning with beam)	Sereno	Stored Beam & Injection
1100-2400	Downtime -- Investigation of SR IS1	Multiple	No SR Beam
1600-1700	Measure LTP/PTB current monitor kicker noise with beam	Keane	No SR injection
	<b>Wednesday, September 25, 2019</b>		
0000-2400	Downtime -- Investigation of SR IS1	Multiple	No SR Beam
1000-1500	Laser alignment	Dooling	Linac Access
1230-1300	Replacement of an IR temperature sensor for sector 38 C3	McKenzie	Zone F Access
	<b>Thursday, September 26, 2019</b>		
0000-2400	Downtime -- Investigation/Replacement of SR IS1	Multiple	No SR Beam
0600-1400	Linac RF conditioning	RF Group	No injection
1300:1600	425 MeV setup	Yine Sun	Limited injection
1600-1900	injector diagnostics checkout	Calvey/ Harkay/	No injection

		<b>Wootton/ Dooling</b>	
<b>Friday, September 27, 2019</b>			
<b>0000-2400</b>	<b>Downtime -- Replacement of SR IS1 and begin bake-out</b>	<b>Multiple</b>	<b>No SR Beam</b>
<b>0600-1100</b>	<b>Linac RF conditioning</b>	<b>RF Group</b>	<b>No injection</b>
<b>1100-1700</b>	<b>BTS 5x5 matrix measurements (Test in PTB)</b>	<b>Borland/ Xiao/ Wootton</b>	<b>Limited injection</b>
<b>1700-1900</b>	<b>PAR/Booster diagnostics checkout</b>	<b>Harkay/ Calvey/ Dooling</b>	<b>Limited injection</b>
<b>Saturday, September 28, 2019</b>			
<b>0000-2400</b>	<b>Downtime -- Bake-out and temperature ramp down</b>	<b>Multiple</b>	<b>No SR Beam</b>
<b>Sunday, September 29, 2019</b>			
<b>0000-0830</b>	<b>Bake-out rampdown</b>	<b>Multiple</b>	<b>No SR Beam</b>
<i>The following portion of the schedule is tentative. The recovery and studies may occur earlier or later and are dependent on the replacement and testing of S:IS1. Storing beam is also dependent on vacuum.</i>			
<b>0830-1000</b>	<b>Leak check and bake-out teardown</b>	<b>Multiple</b>	<b>No SR Beam</b>
<b>1000--1130</b>	<b>Final survey and alignment check</b>	<b>Survey</b>	<b>No SR Beam</b>
<b>1130-1530</b>	<b>Reassemble/reconnect equipment. Verification measurements/test on pulsed upplies</b>	<b>Multipe</b>	<b>No SR Beam</b>
<b>1530-1630</b>	<b>Shielding verification of Zones A &amp; F</b>	<b>HP</b>	<b>No SR Beam</b>
<b>1630-1700</b>	<b>Search Zones A &amp;F</b>	<b>OPS</b>	<b>No SR Beam</b>
<b>1700-1800</b>	<b>Rack in switchgear</b>	<b>FAC</b>	<b>No SR Beam</b>
<b>1800-2000</b>	<b>Recover SR DC power supplies, RF and Booster ramping supplies</b>	<b>OPS</b>	<b>No SR Beam</b>
<b>1800-1900</b>	<b>Pulsed power supply testing</b>	<b>P.S. Group</b>	<b>No SR Beam</b>
<b>1900-2000</b>	<b>Check-out SR Dipole</b>	<b>P.S. Group</b>	<b>No SR Beam</b>
<b>2000-2200</b>	<b>Verify injection and slowly ramp up current to 102mA -- based on RF cavity</b>	<b>Emery/OPS</b>	<b>No SR Beam</b>

	<b>vacuum</b>		
<b>2200-2400</b>	<b>BPLD validation</b>	<b>Sereno</b>	<b>Stored beam &amp; injection</b>
	<b>Monday, September 30, 2019</b>		
<b>0000-0400</b>	<b>Lattice set-up</b>	<b>Xiao</b>	<b>Stored Beam &amp; Injection</b>
<b>0400-0800</b>	<b>Orbit set-up</b>	<b>Yipeng Sun</b>	<b>Stored Beam &amp; injection</b>
<b>0800-1000</b>	<b>Final pinhole camera set-up</b>	<b>Yang</b>	<b>Stored Beam &amp; Injection</b>
<b>1000-1300</b>	<b>Bunch purity setup</b>	<b>Harkay</b>	<b>Stored Beam &amp; Injection</b>
<b>1300-1400</b>	<b>Investigate/repair LTP:Q6</b>	<b>Puttkammer</b>	<b>No injection</b>
<b>1430-1700</b>	<b>Booster controllaws</b>	<b>Calvey/ Harkay</b>	<b>Limited injection</b>
<b>1630-1830</b>	<b>IS1 Feedforward</b>	<b>Emery</b>	<b>Stored Beam &amp; injection</b>
<b>1830-2400</b>	<b>TBD</b>		
	<b>Tuesday, October 1, 2019</b>		
<b>0000-0630</b>	<b>TBD</b>		<b>Stored Beam &amp; injection</b>
<b>0630-0800</b>	<b>Prepare for User beam</b>	<b>OPS</b>	<b>Stored beam &amp; injection</b>