CBETA beam commissioning traffic lights May 2, 2019

#	Task	Status	Risk	Description	Date
	NYSERDA Milestone 9			**"Single pass beam energy scan"**	**June 30**
1	Gun			Ready for 300 kV operations	Mar 15
2	Injection CryoModule			Ready for operations	Mar 15
3	Injection line magnets & diagnostics			Ready for operations	April 1
4	Main Linac Cryomodule (MLC)			Ready for operations	April 8
5	Injection line optics			Match optics with beam measurements	April 15
6	Beam into dump line			6 MeV	April 22
7	Beam through MLC			42 MeV	April 22
8	Beam through splitter beamline S1			42 MeV	April 29
9	Beam through FFA return arc			Milestone deliverable 9a	May 15
10	Energy scan complete			Milestone deliverables 9b & 9c	May 30
	NYSERDA Milestone 10			**"Single pass beam with energy recovery"**	**Oct 31**
11	Beam through splitter beamline R1				June 7
12	Beam into dump			Decelerate 2nd MLC pass. Deliverable 10a.	June 21
13	Optimize energy recovery			Deliverables 10b & 10c	June 30

Status	Risk to milestone completion on schedule
Completed	None
In progress	Low to moderate
Not started	High

Milestone deliverables

9a Pass beam through MLC and around the arc once during this first phase of beam commissioning.
9b Test the ability of the arc magnets to pass a broad range of beam energies during this test.
9c Perform energy scan by adjusting the accelerating voltage of the MLC & activating the beam diagnostic systems.
10a Pass the beam through the MLC [twice] and decelerate it during the second time.
10b Measure the efficiency of the energy recovery of the accelerator at low currents.
10c Perform … experiments on energy recovery variation with beam current and with other accelerator parameters.